

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
25 October 2001 (25.10.2001)

PCT

(10) International Publication Number
WO 01/79556 A2

- (51) International Patent Classification⁷: C12Q 1/68 (74) Agents: SMITH, DeAnn, F. et al.; Lahive & Cockfield, LLP, 28 State Street, Boston, MA 02109 (US).
- (21) International Application Number: PCT/US01/12132 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.
- (22) International Filing Date: 13 April 2001 (13.04.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/197,538 14 April 2000 (14.04.2000) US (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant: MILLENNIUM PREDICTIVE MEDICINE, INC. [US/US]; One Kendall Square Building 700, Cambridge, MA 02139 (US).
- (72) Inventors: LILLIE, James; 3 Wild Meadow Lane, Natick, MA 01760 (US). BROWN, Jeffrey, L.; 8 Chatham Street, Arlington, MA 02474 (US). BOLT, Andrew; 10 Wendell Street, #4, Cambridge, MA 02138 (US). VAN HUFFEL, Christophe; 13, rue Albert de Bast, B-1083 Brussels (BE).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 01/79556 A2

(54) Title: NOVEL GENES, COMPOSITIONS AND METHODS FOR THE IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF HUMAN CANCERS

(57) Abstract: The present invention is directed to the identification of markers that can be used to determine whether cancer cells are sensitive or resistant to a therapeutic agent. The present invention is also directed to the identification of therapeutic targets. The invention features a number of "sensitivity markers." These are markers that are expressed in most or all cell lines that are sensitive to treatment with an agent and which are not expressed (or are expressed at a rather low level) in cells that are resistant to treatment with that agent. The invention also features a number of "resistance markers." These are markers that are expressed in most or all cell lines that are resistant to treatment with an agent and which are not expressed (or are expressed at a rather low level) in cells that are sensitive to treatment with that agent.

NOVEL GENES, COMPOSITIONS AND METHODS FOR THE IDENTIFICATION,
ASSESSMENT, PREVENTION, AND THERAPY OF HUMAN CANCERS

5

Related Applications

The present application claims priority to U.S. provisional patent application serial no. 60/197,538, filed on April 14, 2000, which is expressly incorporated by reference.

10

Background of the Invention

Cancers can be viewed as a breakdown in the communication between tumor cells and their environment, including their normal neighboring cells. Growth-stimulatory and growth-inhibitory signals are routinely exchanged between cells within a tissue. Normally, cells do not divide in the absence of stimulatory signals or in the
15 presence of inhibitory signals. In a cancerous or neoplastic state, a cell acquires the ability to "override" these signals and to proliferate under conditions in which a normal cell would not.

In general, tumor cells must acquire a number of distinct aberrant traits in order to proliferate in an abnormal manner. Reflecting this requirement is the fact that
20 the genomes of certain well-studied tumors carry several different independently altered genes, including activated oncogenes and inactivated tumor suppressor genes. In addition to abnormal cell proliferation, cells must acquire several other traits for tumor progression to occur. For example, early on in tumor progression, cells must evade the host immune system. Further, as tumor mass increases, the tumor must acquire
25 vasculature to supply nourishment and remove metabolic waste. Additionally, cells must acquire an ability to invade adjacent tissue. In many cases cells ultimately acquire the capacity to metastasize to distant sites.

It is apparent that the complex process of tumor development and growth must involve multiple gene products. It is therefore important to define the role of
30 specific genes involved in tumor development and growth and identify those genes and gene products that can serve as targets for the diagnosis, prevention and treatment of cancers.

In the realm of cancer therapy it often happens that a therapeutic agent that is initially effective for a given patient becomes, over time, ineffective or less effective for that patient. The very same therapeutic agent may continue to be effective over a long period of time for a different patient. Further, a therapeutic agent that is effective, at least initially, for some patients can be completely ineffective or even harmful for other patients. Accordingly, it would be useful to identify genes and/or gene products that represent prognostic genes with respect to a given therapeutic agent or class of therapeutic agents. It then may be possible to determine which patients will benefit from particular therapeutic regimen and, importantly, determine when, if ever, the therapeutic regime begins to lose its effectiveness for a given patient. The ability to make such predictions would make it possible to discontinue a therapeutic regime that has lost its effectiveness well before its loss of effectiveness becomes apparent by conventional measures.

Summary of the Invention

The present invention is directed to the identification of markers that can be used to determine the sensitivity or resistance of cancer cells to a therapeutic agent. By examining the expression of one or more of the identified markers, whose expression correlates with sensitivity to a therapeutic agent or resistance to a therapeutic agent, in a sample of cancer cells, it is possible to determine whether a therapeutic agent or combination of agents will be most likely to reduce the growth rate of the cancer and can further be used in selecting appropriate treatment agents. The markers of the present invention whose expression correlates with sensitivity or with resistance to an agent are set forth as SEQ ID NOS:1-1046. In particular, SEQ ID NOS:1-127, SEQ ID NOS:398-517 and SEQ ID NOS: 746-841 are those markers whose expression correlates with sensitivity and SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 842-1046 are those markers whose expression correlates with resistance.

By examining the expression of one or more of the identified markers in a sample of cancer cells, it is possible to determine which therapeutic agent or combination of agents will be most likely to reduce the growth rate of the cancer. By examining the expression of one or more of the identified markers in a sample of cancer cells, it is also possible to determine which therapeutic agent or combination of agents will be the least likely to reduce the growth rate of the cancer. By examining the

expression of one or more of the identified markers, it is therefore possible to eliminate ineffective or inappropriate therapeutic agents. Moreover, by examining the expression of one or more of the identified markers in a sample of cancer cells taken from a patient during the course of therapeutic treatment, it is possible to determine whether the
5 therapeutic treatment is continuing to be effective or whether the cancer has become resistant (refractory) to the therapeutic treatment. It is also possible to identify new anti-cancer agents by examining the expression of one or more markers when cancer cells or a cancer cell line is exposed to a potential anti-cancer agent. Importantly, these determinations can be made on a patient by patient basis or on an agent by agent (or
10 combination of agents) basis. Thus, one can determine whether or not a particular therapeutic treatment is likely to benefit a particular patient or group/class of patients, or whether a particular treatment should be continued.

The present invention further provides previously unknown or unrecognized targets for the development of anti-cancer agents, such as
15 chemotherapeutic compounds. The markers of the present invention can be used as targets in developing treatments (either single agent or multiple agent) for cancer, particularly for those cancers which display resistance to agents and exhibit expression of one or more of the markers identified herein, whose expression is correlated with resistance.

20 Other features and advantages of the invention will be apparent from the detailed description and from the claims. Although materials and methods similar or equivalent to those described herein can be used in the practice or testing of the invention, the preferred materials and methods are described below.

25 **DETAILED DESCRIPTION OF THE INVENTION**

General Description

The present invention is based, in part, on the identification of markers that can be used to determine whether cancer cells are sensitive or resistant to a
30 therapeutic agent. Based on these identifications, the present invention provides, without limitation: 1) methods for determining whether a therapeutic agent (or combination of agents) will or will not be effective in stopping or slowing tumor growth; 2) methods for monitoring the effectiveness of a therapeutic agent (or

combination of agents) used for the treatment of cancer; 3) methods for identifying new therapeutic agents for the treatment of cancer; 4) methods for identifying combinations of therapeutic agents for use in treating cancer; and 5) methods for identifying specific therapeutic agents and combinations of therapeutic agents that are effective for the
5 treatment of cancer in specific patients.

Definitions

Unless otherwise defined, all technical and scientific terms used herein have the same meaning as commonly understood by one of ordinary skill in the art to
10 which this invention belongs. Although methods and materials similar or equivalent to those described herein can be used in the practice or testing of the present invention, the preferred methods and materials are described herein. All publications, patent applications, patents, and other references mentioned herein are incorporated by reference in their entirety. The content of all database records cited throughout this
15 application are also hereby incorporated by reference. In the case of conflict, the present specification, including definitions, will control. In addition, the materials, methods, and examples are illustrative only and are not intended to be limiting.

The articles "a" and "an" are used herein to refer to one or to more than one (*i.e.* to at least one) of the grammatical object of the article. By way of example, "an
20 element" means one element or more than one element.

A "marker" is a naturally-occurring polymer corresponding to at least one of the nucleic acids, or genetic loci, listed in SEQ ID NOS:1-1046. For example, markers include, without limitation, sense and anti-sense strands of genomic DNA (*i.e.* including any introns occurring therein), RNA generated by transcription of genomic
25 DNA (*i.e.* prior to splicing), RNA generated by splicing of RNA transcribed from genomic DNA, and proteins generated by translation of spliced RNA (*i.e.* including proteins both before and after cleavage of normally cleaved regions such as transmembrane signal sequences). As used herein, "marker" may also include a cDNA made by reverse transcription of an RNA generated by transcription of genomic DNA
30 (including spliced RNA).

The term "probe" refers to any molecule which is capable of selectively binding to a specifically intended target molecule, for example a marker of the invention. Probes can be either synthesized by one skilled in the art, or derived from

appropriate biological preparations. For purposes of detection of the target molecule, probes may be specifically designed to be labeled, as described herein. Examples of molecules that can be utilized as probes include, but are not limited to, RNA, DNA, proteins, antibodies, and organic monomers.

5 The "normal" level of expression of a marker is the level of expression of the marker in cells of a patient not afflicted with cancer.

"Over-expression" and "under-expression" of a marker refer to expression of the marker of a patient at a greater or lesser level, respectively, than normal level of expression of the marker (*e.g.* at least two-fold greater or lesser level).

10 As used herein, the term "promoter/regulatory sequence" means a nucleic acid sequence which is required for expression of a gene product operably linked to the promoter/regulatory sequence. In some instances, this sequence may be the core promoter sequence and in other instances, this sequence may also include an enhancer sequence and other regulatory elements which are required for expression of the gene
15 product. The promoter/regulatory sequence may, for example, be one which expresses the gene product in a tissue-specific manner.

A "constitutive" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell under most or all physiological conditions
20 of the cell.

An "inducible" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell substantially only when an inducer which corresponds to the promoter is present in the cell.

25 A "tissue-specific" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell substantially only if the cell is a cell of the tissue type corresponding to the promoter.

A "transcribed polynucleotide" is a polynucleotide (*e.g.* an RNA, a
30 cDNA, or an analog of one of an RNA or cDNA) which is complementary to or homologous with all or a portion of a mature RNA made by transcription of a genomic DNA corresponding to a marker of the invention and normal post-transcriptional processing (*e.g.* splicing), if any, of the transcript.

"Complementary" refers to the broad concept of sequence complementarity between regions of two nucleic acid strands or between two regions of the same nucleic acid strand. It is known that an adenine residue of a first nucleic acid region is capable of forming specific hydrogen bonds ("base pairing") with a residue of a second nucleic acid region which is antiparallel to the first region if the residue is thymine or uracil. Similarly, it is known that a cytosine residue of a first nucleic acid strand is capable of base pairing with a residue of a second nucleic acid strand which is antiparallel to the first strand if the residue is guanine. A first region of a nucleic acid is complementary to a second region of the same or a different nucleic acid if, when the two regions are arranged in an antiparallel fashion, at least one nucleotide residue of the first region is capable of base pairing with a residue of the second region. Preferably, the first region comprises a first portion and the second region comprises a second portion, whereby, when the first and second portions are arranged in an antiparallel fashion, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residues of the first portion are capable of base pairing with nucleotide residues in the second portion. More preferably, all nucleotide residues of the first portion are capable of base pairing with nucleotide residues in the second portion.

"Homologous" as used herein, refers to nucleotide sequence similarity between two regions of the same nucleic acid strand or between regions of two different nucleic acid strands. When a nucleotide residue position in both regions is occupied by the same nucleotide residue, then the regions are homologous at that position. A first region is homologous to a second region if at least one nucleotide residue position of each region is occupied by the same residue. Homology between two regions is expressed in terms of the proportion of nucleotide residue positions of the two regions that are occupied by the same nucleotide residue. By way of example, a region having the nucleotide sequence 5'-ATTGCC-3' and a region having the nucleotide sequence 5'-TATGGC-3' share 50% homology. Preferably, the first region comprises a first portion and the second region comprises a second portion, whereby, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residue positions of each of the portions are occupied by the same nucleotide residue. More preferably, all nucleotide residue positions of each of the portions are occupied by the same nucleotide residue.

A marker is "fixed" to a substrate if it is covalently or non-covalently associated with the substrate such the substrate can be rinsed with a fluid (*e.g.* standard saline citrate, pH 7.4) without a substantial fraction of the marker dissociating from the substrate.

5 As used herein, a "naturally-occurring" nucleic acid molecule refers to an RNA or DNA molecule having a nucleotide sequence that occurs in nature (*e.g.* encodes a natural protein).

Expression of a marker in a patient is "significantly" higher or lower than the normal level of expression of a marker if the level of expression of the marker is
10 greater or less, respectively, than the normal level by an amount greater than the standard error of the assay employed to assess expression, and preferably at least twice, and more preferably three, four, five or ten times that amount. Alternately, expression of the marker in the patient can be considered "significantly" higher or lower than the normal level of expression if the level of expression is at least about two, and preferably
15 at least about three, four, or five times, higher or lower, respectively, than the normal level of expression of the marker.

Cancer is "inhibited" if at least one symptom of the cancer is alleviated, terminated, slowed, or prevented. As used herein, cancer is also "inhibited" if recurrence or metastasis of the cancer is reduced, slowed, delayed, or prevented.

20 A cancer cell is "sensitive" to a therapeutic agent if its rate of growth is inhibited as a result of contact with the therapeutic agent, compared to its growth in the absence of contact with the therapeutic agent. The quality of being sensitive to a therapeutic agent is a variable one, with different cancer cells exhibiting different levels of "sensitivity" to a given therapeutic agent, under different conditions. In one
25 embodiment of the invention, cancer cells may be predisposed to sensitivity to an agent if one or more of the corresponding sensitivity markers (SEQ ID NOS:1-127, SEQ ID NOS:398-517 and SEQ ID NOS: 746-841) are expressed.

A cancer cell is "resistant" to a therapeutic agent if its rate of growth is not inhibited, or inhibited to a very low degree, as a result of contact with the therapeutic
30 agent when compared to its growth in the absence of contact with the therapeutic agent. The quality of being resistant to a therapeutic agent is a highly variable one, with different cancer cells exhibiting different levels of "resistance" to a given therapeutic agent, under different conditions. In another embodiments of the invention, cancer cells

may be predisposed to resistance to an agent if one or more of the corresponding resistant markers (SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 842-1046) are expressed.

A kit is any manufacture (*e.g.* a package or container) comprising at least one reagent, *e.g.* a probe, for specifically detecting a marker of the invention. The kit may be promoted, distributed, or sold as a unit for performing the methods of the present invention. The reagents included in such a kit comprise probes/primers and/or antibodies for use in detecting sensitivity and resistance gene expression. In addition, the kits of the present invention may preferably contain instructions which describe a suitable detection assay. Such kits can be conveniently used, *e.g.*, in clinical settings, to diagnose patients exhibiting symptoms of cancer.

Specific Embodiments

15

I. Identification Of Sensitivity And Resistance Genes

The present invention provides genes that are expressed in cancer cells that are sensitive or resistant to a given therapeutic agent and whose expression correlates with sensitivity to that therapeutic agent. The present invention also provides genes that are expressed in cancer cell lines that are resistant to a given therapeutic agent and whose expression correlates with resistance to that therapeutic agent. Accordingly, one or more of the identified genes can be used as markers (or surrogate markers) to identify cancer cells that can be successfully treated by that agent. In addition, these markers can be used to identify cancers that have become or are at risk of becoming refractory to treatment with the agent.

25

II. Determining Sensitivity or Resistance To An Agent

The expression level of the identified sensitivity and resistance genes, or the proteins encoded by the identified sensitivity and resistance genes, may be used to:

- 1) determine if a cancer can be treated by an agent or combination of agents;
- 2) determine if a cancer is responding to treatment with an agent or combination of agents;
- 3) select an appropriate agent or combination of agents for treating a cancer;
- 4) monitor

30

the effectiveness of an ongoing treatment; and 5) identify new cancer treatments (either single agent or combination of agents). In particular, the identified sensitivity and resistance genes may be utilized as markers (surrogate and/or direct) to determine appropriate therapy, to monitor clinical therapy and human trials of a drug being tested for efficacy, and to develop new agents and therapeutic combinations.

Accordingly, the present invention provides methods for determining whether an agent, e.g., a chemotherapeutic agent, can be used to reduce the growth rate of cancer cells comprising the steps of:

- a) obtaining a sample of cancer cells;
- 10 b) determining whether the cancer cells express one or more markers identified in SEQ ID NOS:1-1046; and
- c) identifying that an agent is or is not appropriate to treat the cancer based on the expression of the markers listed in SEQ ID NOS:1-1046.

In another embodiment, the invention provides a method for determining whether an agent can be used to reduce the growth of cancer cells, comprising the steps of:

- a) obtaining a sample of cancer cells;
- b) determining whether the cancer cells express one or more markers identified in SEQ ID NOS:1-127, SEQ ID NOS:398-517 and SEQ ID NOS: 746-841;
- 20 and
- c) identifying that an agent is appropriate to treat the cancer when one or more markers listed in SEQ ID NOS:1-127, SEQ ID NOS:398-517 and SEQ ID NOS: 746-841 are expressed by the cancer cells.

Alternatively, in step (c), an agent can be identified as not being appropriate to treat the cancer when one or more markers listed in SEQ ID NOS:1-127, SEQ ID NOS:398-517 and SEQ ID NOS: 746-841 are not expressed by the cancer cells.

In another embodiment, the invention provides a method for determining whether an agent can be used to reduce the growth of cancer cells, comprising the steps of:

- 30 a) obtaining a sample of cancer cells;
- b) determining whether the cancer cells express one or more markers identified in SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 842-1046; and

c) identifying that an agent is appropriate to treat the cancer when one or more markers identified in SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS:842-1046 are not expressed by the cancer cells.

Alternatively, in step (c), an agent can be identified as not being
5 appropriate to treat the cancer when one or more markers listed in SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 842-1046 are expressed by the cancer cells.

In another embodiment, the invention provides a method for determining whether an agent can be used to reduce the growth of cancer cells, comprising the steps
10 of:

a) obtaining a sample of cancer cells;
b) exposing some of the cancer cells to one or more test agents;
c) determining the level of expression in of one or more markers
listed in SEQ ID NOS:1-127, SEQ ID NOS:398-517 and SEQ ID NOS: 746-841 both in
15 cancer cells exposed to the agent and in cancer cells that have not been exposed to the agent; and

d) identifying that an agent is appropriate to treat the cancer when the expression of the markers listed in SEQ ID NOS:1-127, SEQ ID NOS:398-517 and SEQ ID NOS: 746-841 is increased in the presence of the agent.

Alternatively, in step (d), an agent can be identified as not being
20 appropriate to treat the cancer when the expression of the markers listed in SEQ ID NOS:1-127, SEQ ID NOS:398-517 and SEQ ID NOS: 746-841 is decreased in the presence of the agent.

In another embodiment, the invention provides a method for determining whether an agent can be used to reduce the growth of cancer cells, comprising the steps
25 of:

a) obtaining a sample of cancer cells;
b) exposing some of the cancer cells to one or more test agents;
c) determining the level of expression in of one or more markers
30 listed in SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 842-1046, both in cancer cells exposed to the agent and in cancer cells that have not been exposed to the agent; and

d) identifying that an agent is not appropriate to treat the cancer when the expression of the markers listed in SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 842-1046 is increased in the presence of the agent.

Alternatively, in step (d), an agent can be identified as being appropriate
5 to treat the cancer when the expression of the markers listed in SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 842-1046 is decreased in the presence of the agent.

In another embodiment, the invention provides a method for determining whether treatment with an anti-cancer agent should be continued in a cancer patient,
10 comprising the steps of:

- a) obtaining two or more samples of cancer cells from a patient at different times during the course of anti-cancer agent treatment;
- b) determining the level of expression in the cancer cells of one or more genes which correspond to markers listed in SEQ ID NOS:1-127, SEQ ID
15 NOS:398-517 and SEQ ID NOS: 746-841 in the two or more samples; and
- c) continuing the treatment when the expression level of the markers listed in SEQ ID NOS:1-127, SEQ ID NOS:398-517 and SEQ ID NOS: 746-841 does not decrease during the course of treatment.

Alternatively, in step (c), the treatment is discontinued when the
20 expression level of the markers listed in SEQ ID NOS:1-127, SEQ ID NOS:398-517 and SEQ ID NOS: 746-841 are decreased during the course of treatment.

In another embodiment, the invention provides a method for determining whether treatment with an anti-cancer agent should be continued in a cancer patient, comprising the steps of:

- 25 a) obtaining two or more samples of cancer cells from a patient at different times during the course of anti-cancer agent treatment;
- b) determining the level of expression in the cancer cells of one or more markers listed in SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 842-1046 in the two or more samples; and
- 30 c) continuing the treatment when the expression level of one or more markers listed in SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 842-1046 is not increased during the course of treatment.

Alternatively, in step (c), the treatment is discontinued when the expression level of one or more markers listed in SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 842-1046 is increased during the course of treatment.

In another embodiment of the invention, the agents used in methods of the invention is a taxane. In another embodiment of the invention, the expression of genes which correspond to markers listed in SEQ ID NOS:1-1046 is detected by measuring mRNA which corresponds to the gene. In yet another embodiment of the invention, the expression of genes which correspond to markers listed in SEQ ID NOS:1-1046 is detected by measuring protein which corresponds to the gene. In a further another embodiment of the invention, the cancer cells or cancer cell lines used in the methods of the invention are obtained from a patient.

In another embodiment, the invention provides a method of treating a patient for cancer by administering to the patient a compound which has been identified as being effective against cancer by methods of the invention described herein.

As used herein, an agent is said to reduce the rate of growth of cancer cells when the agent can reduce at least 50%, preferably at least 75%, most preferably at least 95% of the growth of the cancer cells.

Such inhibition can further include a reduction in survivability and an increase in the rate of death of the cancer cells. The amount of agent used for this determination will vary based on the agent selected. Typically, the amount will be a predefined therapeutic amount.

As used herein, the term "agent" is defined broadly as anything that cancer cells may be exposed to in a therapeutic protocol. In the context of the present invention, such agents include, but are not limited to, chemotherapeutic agents, such as anti-metabolic agents, *e.g.*, Ara AC, 5-FU and methotrexate, antimitotic agents, *e.g.*, TAXOL, inblastine and vincristine, alkylating agents, *e.g.*, melphanlan, BCNU and nitrogen mustard, Topoisomerase II inhibitors, *e.g.*, VW-26, topotecan and Bleomycin, strand-breaking agents, *e.g.*, doxorubicin and DHAD, cross-linking agents, *e.g.*, cisplatin and CBDCA, radiation and ultraviolet light. In a preferred embodiment, the agent is a taxane compound (*e.g.*, TAXOL).

Further to the above, the language "chemotherapeutic agent" is intended to include chemical reagents which inhibit the growth of proliferating cells or tissues wherein the growth of such cells or tissues is undesirable. Chemotherapeutic agents are

well known in the art (see *e.g.*, Gilman A.G., *et al.*, The Pharmacological Basis of Therapeutics, 8th Ed., Sec 12:1202-1263 (1990)), and are typically used to treat neoplastic diseases. The chemotherapeutic agents generally employed in chemotherapy treatments are listed below in Table A.

5

TABLE A

CLASS	TYPE OF AGENT	NONPROPRIETARY NAMES (OTHER NAMES)
Alkylating	Nitrogen Mustards	Mechlorethamine (HN ₂) Cyclophosphamide Ifosfamide Melphalan (L-sarcosine) Chlorambucil
	Ethylenimines And Methylmelamines	Hexamethylmelamine Thiotepa
	Alkyl Sulfonates	Busulfan
Alkylating	Nitrosoureas	Carmustine (BCNU) Lomustine (CCNU) Semustine (methyl-CCNU) Streptozocin (streptozotocin)
	Triazenes	Decarbazine (DTIC; dimethyltriazeneolmi- dazolecarboxamide)
	Alkylator	cis-diamminedichloroplatinum II (CDDP)

Antimetabolites	Folic Acid Analogues	Methotrexate (amethopterin)
	Pyrimidine Analogues	Fluorouracil (5-fluorouracil; 5-FU) Floxadine (fluorode-oxyuridine; FUdR) Cytarabine (cytosine arabioside)
	Purine Analogues and Related Inhibitors	Mercaptopuine (6-mercaptopurine; 6-MP) Thioguanine (6-thioguanine; TG) Pentostatin (2' - deoxycoformycin)

CLASS	TYPE OF AGENT	NONPROPRIETARY NAMES , (OTHER NAMES)
Natural Products	Vinca Alkaloids	Vinblastin (VLB)
		Vincristine
	Topoisomerase Inhibitors	Etoposide
		Teniposide
		Camptothecin
		Topotecan
		9-amino-campotothecin CPT-11
	Antibiotics	Dactinomycin (actinomycin D)
		Adriamycin
		Daunorubicin (daunomycin; rubindomycin)
		Doxorubicin
		Bleomycin
		Plicamycin (mithramycin)
		Mitomycin (mitomycin C)
		TAXOL
		Taxotere
	Enzymes	L-Asparaginase
	Biological Response Modifiers	Interfon alfa
		interleukin 2

Miscellaneous Agents	Platinum Coordination Complexes	cis-diamminedichloroplatinum II (CDDP) Carboplatin
	Anthracendione	Mitoxantrone
	Substituted Urea	Hydroxyurea
	Methyl Hydraxzine Derivative	Procarbazine (N-methylhydrazine, (MIH))
	Adrenocortical Suppressant	Mitotane (<i>o,p'</i>-DDD) Aminoglutethimide

Hormones and Antagonists	Adrenocorticosteroids	Prednisone
	Progestins	Hydroxyprogesterone caproate
		Medroxyprogesterone acetate
		Megestrol acetate
	Estrogens	Diethylstilbestrol
		Ethinyl estradiol
	Antiestrogen	Tamoxifen
	Androgens	Testosterone propionate
	Antiandrogen	Fluoxymesterone
	Gonadotropin-releasing Hormone analog	Flutamide
		Leuprolide

The agents tested in the present methods can be a single agent or a combination of agents. For example, the present methods can be used to determine whether a single chemotherapeutic agent, such as methotrexate, can be used to treat a cancer or whether a combination of two or more agents can be used. Preferred combinations will include agents that have different mechanisms of action, e.g., the use of an anti-mitotic agent in combination with an alkylating agent.

As used herein, cancer cells refer to cells that divide at an abnormal (increased) rate. Cancer cells include, but are not limited to, carcinomas, such as squamous cell carcinoma, basal cell carcinoma, sweat gland carcinoma, sebaceous gland

- carcinoma, adenocarcinoma, papillary carcinoma, papillary adenocarcinoma, cystadenocarcinoma, medullary carcinoma, undifferentiated carcinoma, bronchogenic carcinoma, melanoma, renal cell carcinoma, hepatoma-liver cell carcinoma, bile duct carcinoma, cholangiocarcinoma, papillary carcinoma, transitional cell carcinoma,
- 5 choriocarcinoma, seminoma, embryonal carcinoma, mammary carcinomas, gastrointestinal carcinoma, colonic carcinomas, bladder carcinoma, prostate carcinoma, and squamous cell carcinoma of the neck and head region; sarcomas, such as fibrosarcoma, myxosarcoma, liposarcoma, chondrosarcoma, osteogenic sarcoma, chordosarcoma, angiosarcoma, endotheliosarcoma, lymphangiosarcoma,
- 10 synoviosarcoma and mesotheliosarcoma; leukemias and lymphomas such as granulocytic leukemia, monocytic leukemia, lymphocytic leukemia, malignant lymphoma, plasmacytoma, reticulum cell sarcoma, or Hodgkins disease; and tumors of the nervous system including glioma, meningoma, medulloblastoma, schwannoma or epidymoma.
- 15 The source of the cancer cells used in the present method will be based on how the method of the present invention is being used. For example, if the method is being used to determine whether a patient's cancer can be treated with an agent, or a combination of agents, then the preferred source of cancer cells will be cancer cells obtained from a cancer biopsy from the patient. Alternatively, a cancer cell line similar
- 20 to the type of cancer being treated can be assayed. For example if breast cancer is being treated, then a breast cancer cell line can be used. If the method is being used to monitor the effectiveness of a therapeutic protocol, then a tissue sample from the patient being treated is the preferred source. If the method is being used to identify new therapeutic agents or combinations, any cancer cells, e.g., cells of a cancer cell line, can be used.
- 25 A skilled artisan can readily select and obtain the appropriate cancer cells that are used in the present method. For cancer cell lines, sources such as The National Cancer Institute, for the NCI-60 cells used in the examples, are preferred. For cancer cells obtained from a patient, standard biopsy methods, such as a needle biopsy, can be employed.
- 30 In the methods of the present invention, the level or amount of expression of one or more genes selected from the group consisting of the genes identified in SEQ ID NOS:1-1046 is determined. As used herein, the level or amount of expression refers to the absolute level of expression of an mRNA encoded by the gene or the absolute

level of expression of the protein encoded by the gene (i.e., whether or not expression is or is not occurring in the cancer cells).

Generally, it is preferable to determine the expression of two or more of the identified sensitivity or resistance genes, more preferably, three or more of the identified sensitivity or resistance genes, most preferably all of the identified sensitivity and/or resistance genes. Thus, it is preferable to assess the expression of a panel of sensitivity and resistance genes.

As an alternative to making determinations based on the absolute expression level of selected genes, determinations may be based on the normalized expression levels. Expression levels are normalized by correcting the absolute expression level of a sensitivity or resistance gene by comparing its expression to the expression of a gene that is not a sensitivity or resistance gene, e.g., a housekeeping genes that is constitutively expressed. Suitable genes for normalization include housekeeping genes such as the actin gene. This normalization allows one to compare the expression level in one sample, e.g., a patient sample, to another sample, e.g., a non-cancer sample, or between samples from different sources.

Alternatively, the expression level can be provided as a relative expression level. To determine a relative expression level of a gene, the level of expression of the gene is determined for 10 or more samples, preferably 50 or more samples, prior to the determination of the expression level for the sample in question. The mean expression level of each of the genes assayed in the larger number of samples is determined and this is used as a baseline expression level for the gene(s) in question. The expression level of the gene determined for the test sample (absolute level of expression) is then divided by the mean expression value obtained for that gene. This provides a relative expression level and aids in identifying extreme cases of sensitivity or resistance.

Preferably, the samples used will be from similar tumors or from non-cancerous cells of the same tissue origin as the tumor in question. The choice of the cell source is dependent on the use of the relative expression level data. For example, using tumors of similar types for obtaining a mean expression score allows for the identification of extreme cases of sensitivity or resistance. Using expression found in normal tissues as a mean expression score aids in validating whether the sensitivity/resistance gene assayed is tumor specific (versus normal cells). Such a later

use is particularly important in identifying whether a sensitivity or resistance gene can serve as a target gene. In addition, as more data is accumulated, the mean expression value can be revised, providing improved relative expression values based on accumulated data.

5

III. Isolated Nucleic Acid Molecules

One aspect of the invention pertains to isolated nucleic acid molecules that correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention or a portion of such a polypeptide. Isolated nucleic acids of the invention also include nucleic acid molecules sufficient for use as hybridization probes to identify nucleic acid molecules that correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention, and fragments of such nucleic acid molecules, *e.g.*, those suitable for use as PCR primers for the amplification or mutation of nucleic acid molecules. As used herein, the term "nucleic acid molecule" is intended to include DNA molecules (*e.g.*, cDNA or genomic DNA) and RNA molecules (*e.g.*, mRNA) and analogs of the DNA or RNA generated using nucleotide analogs. The nucleic acid molecule can be single-stranded or double-stranded, but preferably is double-stranded DNA.

An "isolated" nucleic acid molecule is one which is separated from other nucleic acid molecules which are present in the natural source of the nucleic acid molecule. Preferably, an "isolated" nucleic acid molecule is free of sequences (preferably protein-encoding sequences) which naturally flank the nucleic acid (*i.e.*, sequences located at the 5' and 3' ends of the nucleic acid) in the genomic DNA of the organism from which the nucleic acid is derived. For example, in various embodiments, the isolated nucleic acid molecule can contain less than about 5 kB, 4 kB, 3 kB, 2 kB, 1 kB, 0.5 kB or 0.1 kB of nucleotide sequences which naturally flank the nucleic acid molecule in genomic DNA of the cell from which the nucleic acid is derived. Moreover, an "isolated" nucleic acid molecule, such as a cDNA molecule, can be substantially free of other cellular material, or culture medium when produced by recombinant techniques, or substantially free of chemical precursors or other chemicals when chemically synthesized.

A nucleic acid molecule of the present invention, *e.g.*, a nucleic acid encoding a protein corresponding to a marker listed in SEQ ID NOS:1-1046, can be isolated using standard molecular biology techniques and the sequence information in the database records described herein. Using all or a portion of such nucleic acid sequences, nucleic acid molecules of the invention can be isolated using standard hybridization and cloning techniques (*e.g.*, as described in Sambrook *et al.*, ed., *Molecular Cloning: A Laboratory Manual, 2nd ed.*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1989).

A nucleic acid molecule of the invention can be amplified using cDNA, mRNA, or genomic DNA as a template and appropriate oligonucleotide primers according to standard PCR amplification techniques. The nucleic acid so amplified can be cloned into an appropriate vector and characterized by DNA sequence analysis. Furthermore, oligonucleotides corresponding to all or a portion of a nucleic acid molecule of the invention can be prepared by standard synthetic techniques, *e.g.*, using an automated DNA synthesizer.

In another preferred embodiment, an isolated nucleic acid molecule of the invention comprises a nucleic acid molecule which has a nucleotide sequence complementary to the nucleotide sequence of a nucleic acid corresponding to a marker of the invention or to the nucleotide sequence of a nucleic acid encoding a protein which corresponds to a marker of the invention. A nucleic acid molecule which is complementary to a given nucleotide sequence is one which is sufficiently complementary to the given nucleotide sequence that it can hybridize to the given nucleotide sequence thereby forming a stable duplex.

Moreover, a nucleic acid molecule of the invention can comprise only a portion of a nucleic acid sequence, wherein the full length nucleic acid sequence comprises a marker of the invention or which encodes a polypeptide corresponding to a marker of the invention. Such nucleic acids can be used, for example, as a probe or primer. The probe/primer typically is used as one or more substantially purified oligonucleotides. The oligonucleotide typically comprises a region of nucleotide sequence that hybridizes under stringent conditions to at least about 7, preferably about 15, more preferably about 25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, or 400 or more consecutive nucleotides of a nucleic acid of the invention.

Probes based on the sequence of a nucleic acid molecule of the invention can be used to detect transcripts or genomic sequences corresponding to one or more markers of the invention. The probe comprises a label group attached thereto, *e.g.*, a radioisotope, a fluorescent compound, an enzyme, or an enzyme co-factor. Such probes
5 can be used as part of a diagnostic test kit for identifying cells or tissues which mis-express the protein, such as by measuring levels of a nucleic acid molecule encoding the protein in a sample of cells from a subject, *e.g.*, detecting mRNA levels or determining whether a gene encoding the protein has been mutated or deleted.

The invention further encompasses nucleic acid molecules that differ, due
10 to degeneracy of the genetic code, from the nucleotide sequence of nucleic acids encoding a protein which corresponds to a marker of the invention, and thus encode the same protein.

In addition to the nucleotide sequences set forth in SEQ ID NOS:1-1046, it will be appreciated by those skilled in the art that DNA sequence polymorphisms that
15 lead to changes in the amino acid sequence can exist within a population (*e.g.*, the human population). Such genetic polymorphisms can exist among individuals within a population due to natural allelic variation. An allele is one of a group of genes which occur alternatively at a given genetic locus. In addition, it will be appreciated that DNA polymorphisms that affect RNA expression levels can also exist that may affect the
20 overall expression level of that gene (*e.g.*, by affecting regulation or degradation).

As used herein, the phrase "allelic variant" refers to a nucleotide sequence which occurs at a given locus or to a polypeptide encoded by the nucleotide sequence.

As used herein, the terms "gene" and "recombinant gene" refer to nucleic
25 acid molecules comprising an open reading frame encoding a polypeptide corresponding to a marker of the invention. Such natural allelic variations can typically result in 1-5% variance in the nucleotide sequence of a given gene. Alternative alleles can be identified by sequencing the gene of interest in a number of different individuals. This can be readily carried out by using hybridization probes to identify the same genetic locus in a
30 variety of individuals. Any and all such nucleotide variations and resulting amino acid polymorphisms or variations that are the result of natural allelic variation and that do not alter the functional activity are intended to be within the scope of the invention.

In another embodiment, an isolated nucleic acid molecule of the invention is at least 7, 15, 20, 25, 30, 40, 60, 80, 100, 150, 200, 250, 300, 350, 400, 450, 550, 650, 700, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800, 3000, 3500, 4000, 4500, or more nucleotides in length and hybridizes under stringent
5 conditions to a nucleic acid corresponding to a marker of the invention or to a nucleic acid encoding a protein corresponding to a marker of the invention. As used herein, the term "hybridizes under stringent conditions" is intended to describe conditions for hybridization and washing under which nucleotide sequences at least 60% (65%, 70%, preferably 75%) identical to each other typically remain hybridized to each other. Such
10 stringent conditions are known to those skilled in the art and can be found in sections 6.3.1-6.3.6 of *Current Protocols in Molecular Biology*, John Wiley & Sons, N.Y. (1989). A preferred, non-limiting example of stringent hybridization conditions are hybridization in 6X sodium chloride/sodium citrate (SSC) at about 45°C, followed by one or more washes in 0.2X SSC, 0.1% SDS at 50-65°C.

15 In addition to naturally-occurring allelic variants of a nucleic acid molecule of the invention that can exist in the population, the skilled artisan will further appreciate that sequence changes can be introduced by mutation thereby leading to changes in the amino acid sequence of the encoded protein, without altering the biological activity of the protein encoded thereby. For example, one can make
20 nucleotide substitutions leading to amino acid substitutions at "non-essential" amino acid residues. A "non-essential" amino acid residue is a residue that can be altered from the wild-type sequence without altering the biological activity, whereas an "essential" amino acid residue is required for biological activity. For example, amino acid residues that are not conserved or only semi-conserved among homologs of various species may
25 be non-essential for activity and thus would be likely targets for alteration. Alternatively, amino acid residues that are conserved among the homologs of various species (*e.g.*, murine and human) may be essential for activity and thus would not be likely targets for alteration.

Accordingly, another aspect of the invention pertains to nucleic acid
30 molecules encoding a polypeptide of the invention that contain changes in amino acid residues that are not essential for activity. Such polypeptides differ in amino acid sequence from the naturally-occurring proteins which correspond to the markers of the invention, yet retain biological activity. In one embodiment, such a protein has an

amino acid sequence that is at least about 40% identical, 50%, 60%, 70%, 80%, 90%, 95%, or 98% identical to the amino acid sequence of one of the proteins which correspond to the markers of the invention.

An isolated nucleic acid molecule encoding a variant protein can be created by introducing one or more nucleotide substitutions, additions or deletions into the nucleotide sequence of nucleic acids of the invention, such that one or more amino acid residue substitutions, additions, or deletions are introduced into the encoded protein. Mutations can be introduced by standard techniques, such as site-directed mutagenesis and PCR-mediated mutagenesis. Preferably, conservative amino acid substitutions are made at one or more predicted non-essential amino acid residues. A "conservative amino acid substitution" is one in which the amino acid residue is replaced with an amino acid residue having a similar side chain. Families of amino acid residues having similar side chains have been defined in the art. These families include amino acids with basic side chains (*e.g.*, lysine, arginine, histidine), acidic side chains (*e.g.*, aspartic acid, glutamic acid), uncharged polar side chains (*e.g.*, glycine, asparagine, glutamine, serine, threonine, tyrosine, cysteine), non-polar side chains (*e.g.*, alanine, valine, leucine, isoleucine, proline, phenylalanine, methionine, tryptophan), beta-branched side chains (*e.g.*, threonine, valine, isoleucine) and aromatic side chains (*e.g.*, tyrosine, phenylalanine, tryptophan, histidine). Alternatively, mutations can be introduced randomly along all or part of the coding sequence, such as by saturation mutagenesis, and the resultant mutants can be screened for biological activity to identify mutants that retain activity. Following mutagenesis, the encoded protein can be expressed recombinantly and the activity of the protein can be determined.

The present invention encompasses antisense nucleic acid molecules, *i.e.*, molecules which are complementary to a sense nucleic acid of the invention, *e.g.*, complementary to the coding strand of a double-stranded cDNA molecule corresponding to a marker of the invention or complementary to an mRNA sequence corresponding to a marker of the invention. Accordingly, an antisense nucleic acid of the invention can hydrogen bond to (*i.e.* anneal with) a sense nucleic acid of the invention. The antisense nucleic acid can be complementary to an entire coding strand, or to only a portion thereof, *e.g.*, all or part of the protein coding region (or open reading frame). An antisense nucleic acid molecule can also be antisense to all or part of a non-coding region of the coding strand of a nucleotide sequence encoding a polypeptide of

the invention. The non-coding regions ("5' and 3' untranslated regions") are the 5' and 3' sequences which flank the coding region and are not translated into amino acids.

An antisense oligonucleotide can be, for example, about 5, 10, 15, 20, 25, 30, 35, 40, 45, or 50 or more nucleotides in length. An antisense nucleic acid of the invention can be constructed using chemical synthesis and enzymatic ligation reactions using procedures known in the art. For example, an antisense nucleic acid (*e.g.*, an antisense oligonucleotide) can be chemically synthesized using naturally occurring nucleotides or variously modified nucleotides designed to increase the biological stability of the molecules or to increase the physical stability of the duplex formed between the antisense and sense nucleic acids, *e.g.*, phosphorothioate derivatives and acridine substituted nucleotides can be used. Examples of modified nucleotides which can be used to generate the antisense nucleic acid include 5-fluorouracil, 5-bromouracil, 5-chlorouracil, 5-iodouracil, hypoxanthine, xanthine, 4-acetylcytosine, 5-(carboxyhydroxymethyl) uracil, 5-carboxymethylaminomethyl-2-thiouridine, 5-carboxymethylaminomethyluracil, dihydrouracil, beta-D-galactosylqueosine, inosine, N6-isopentenyladenine, 1-methylguanine, 1-methylinosine, 2,2-dimethylguanine, 2-methyladenine, 2-methylguanine, 3-methylcytosine, 5-methylcytosine, N6-adenine, 7-methylguanine, 5-methylaminomethyluracil, 5-methoxyaminomethyl-2-thiouracil, beta-D-mannosylqueosine, 5'-methoxycarboxymethyluracil, 5-methoxyuracil, 2-methylthio-N6-isopentenyladenine, uracil-5-oxyacetic acid (v), wybutoxosine, pseudouracil, queosine, 2-thiocytosine, 5-methyl-2-thiouracil, 2-thiouracil, 4-thiouracil, 5-methyluracil, uracil-5-oxyacetic acid methylester, uracil-5-oxyacetic acid (v), 5-methyl-2-thiouracil, 3-(3-amino-3-N-2-carboxypropyl) uracil, (acp3)w, and 2,6-diaminopurine. Alternatively, the antisense nucleic acid can be produced biologically using an expression vector into which a nucleic acid has been sub-cloned in an antisense orientation (*i.e.*, RNA transcribed from the inserted nucleic acid will be of an antisense orientation to a target nucleic acid of interest, described further in the following subsection).

The antisense nucleic acid molecules of the invention are typically administered to a subject or generated *in situ* such that they hybridize with or bind to cellular mRNA and/or genomic DNA encoding a polypeptide corresponding to a selected marker of the invention to thereby inhibit expression of the marker, *e.g.*, by inhibiting transcription and/or translation. The hybridization can be by conventional

nucleotide complementarity to form a stable duplex, or, for example, in the case of an antisense nucleic acid molecule which binds to DNA duplexes, through specific interactions in the major groove of the double helix. Examples of a route of administration of antisense nucleic acid molecules of the invention includes direct injection at a tissue site or infusion of the antisense nucleic acid into an ovary-associated body fluid. Alternatively, antisense nucleic acid molecules can be modified to target selected cells and then administered systemically. For example, for systemic administration, antisense molecules can be modified such that they specifically bind to receptors or antigens expressed on a selected cell surface, *e.g.*, by linking the antisense nucleic acid molecules to peptides or antibodies which bind to cell surface receptors or antigens. The antisense nucleic acid molecules can also be delivered to cells using the vectors described herein. To achieve sufficient intracellular concentrations of the antisense molecules, vector constructs in which the antisense nucleic acid molecule is placed under the control of a strong pol II or pol III promoter are preferred.

An antisense nucleic acid molecule of the invention can be an α -anomeric nucleic acid molecule. An α -anomeric nucleic acid molecule forms specific double-stranded hybrids with complementary RNA in which, contrary to the usual α -units, the strands run parallel to each other (Gaultier *et al.*, 1987, *Nucleic Acids Res.* 15:6625-6641). The antisense nucleic acid molecule can also comprise a 2'-O-methylribonucleotide (Inoue *et al.*, 1987, *Nucleic Acids Res.* 15:6131-6148) or a chimeric RNA-DNA analogue (Inoue *et al.*, 1987, *FEBS Lett.* 215:327-330).

The invention also encompasses ribozymes. Ribozymes are catalytic RNA molecules with ribonuclease activity which are capable of cleaving a single-stranded nucleic acid, such as an mRNA, to which they have a complementary region. Thus, ribozymes (*e.g.*, hammerhead ribozymes as described in Haselhoff and Gerlach, 1988, *Nature* 334:585-591) can be used to catalytically cleave mRNA transcripts to thereby inhibit translation of the protein encoded by the mRNA. A ribozyme having specificity for a nucleic acid molecule encoding a polypeptide corresponding to a marker of the invention can be designed based upon the nucleotide sequence of a cDNA corresponding to the marker. For example, a derivative of a *Tetrahymena* L-19 IVS RNA can be constructed in which the nucleotide sequence of the active site is complementary to the nucleotide sequence to be cleaved (see Cech *et al.* U.S. Patent No. 4,987,071; and Cech *et al.* U.S. Patent No. 5,116,742). Alternatively, an mRNA

encoding a polypeptide of the invention can be used to select a catalytic RNA having a specific ribonuclease activity from a pool of RNA molecules (see, *e.g.*, Bartel and Szostak, 1993, *Science* 261:1411-1418).

The invention also encompasses nucleic acid molecules which form triple
5 helical structures. For example, expression of a polypeptide of the invention can be inhibited by targeting nucleotide sequences complementary to the regulatory region of the gene encoding the polypeptide (*e.g.*, the promoter and/or enhancer) to form triple helical structures that prevent transcription of the gene in target cells. See generally Helene (1991) *Anticancer Drug Des.* 6(6):569-84; Helene (1992) *Ann. N.Y. Acad. Sci.*
10 660:27-36; and Maher (1992) *Bioassays* 14(12):807-15.

In various embodiments, the nucleic acid molecules of the invention can be modified at the base moiety, sugar moiety or phosphate backbone to improve, *e.g.*, the stability, hybridization, or solubility of the molecule. For example, the deoxyribose phosphate backbone of the nucleic acids can be modified to generate peptide nucleic
15 acids (see Hyrup *et al.*, 1996, *Bioorganic & Medicinal Chemistry* 4(1): 5-23). As used herein, the terms "peptide nucleic acids" or "PNAs" refer to nucleic acid mimics, *e.g.*, DNA mimics, in which the deoxyribose phosphate backbone is replaced by a pseudopeptide backbone and only the four natural nucleobases are retained. The neutral backbone of PNAs has been shown to allow for specific hybridization to DNA and RNA
20 under conditions of low ionic strength. The synthesis of PNA oligomers can be performed using standard solid phase peptide synthesis protocols as described in Hyrup *et al.* (1996), *supra*; Perry-O'Keefe *et al.* (1996) *Proc. Natl. Acad. Sci. USA* 93:14670-675.

PNAs can be used in therapeutic and diagnostic applications. For
25 example, PNAs can be used as antisense or antigene agents for sequence-specific modulation of gene expression by, *e.g.*, inducing transcription or translation arrest or inhibiting replication. PNAs can also be used, *e.g.*, in the analysis of single base pair mutations in a gene by, *e.g.*, PNA directed PCR clamping; as artificial restriction enzymes when used in combination with other enzymes, *e.g.*, S1 nucleases (Hyrup
30 (1996), *supra*; or as probes or primers for DNA sequence and hybridization (Hyrup, 1996, *supra*; Perry-O'Keefe *et al.*, 1996, *Proc. Natl. Acad. Sci. USA* 93:14670-675).

In another embodiment, PNAs can be modified, *e.g.*, to enhance their stability or cellular uptake, by attaching lipophilic or other helper groups to PNA, by the

formation of PNA-DNA chimeras, or by the use of liposomes or other techniques of drug delivery known in the art. For example, PNA-DNA chimeras can be generated which can combine the advantageous properties of PNA and DNA. Such chimeras allow DNA recognition enzymes, *e.g.*, RNASE H and DNA polymerases, to interact
5 with the DNA portion while the PNA portion would provide high binding affinity and specificity. PNA-DNA chimeras can be linked using linkers of appropriate lengths selected in terms of base stacking, number of bonds between the nucleobases, and orientation (Hyrup, 1996, *supra*). The synthesis of PNA-DNA chimeras can be performed as described in Hyrup (1996), *supra*, and Finn *et al.* (1996) *Nucleic Acids*
10 *Res.* 24(17):3357-63. For example, a DNA chain can be synthesized on a solid support using standard phosphoramidite coupling chemistry and modified nucleoside analogs. Compounds such as 5'-(4-methoxytrityl)amino-5'-deoxy-thymidine phosphoramidite can be used as a link between the PNA and the 5' end of DNA (Mag *et al.*, 1989, *Nucleic Acids Res.* 17:5973-88). PNA monomers are then coupled in a step-wise manner to
15 produce a chimeric molecule with a 5' PNA segment and a 3' DNA segment (Finn *et al.*, 1996, *Nucleic Acids Res.* 24(17):3357-63). Alternatively, chimeric molecules can be synthesized with a 5' DNA segment and a 3' PNA segment (Peterser *et al.*, 1975, *Bioorganic Med. Chem. Lett.* 5:1119-11124).

In other embodiments, the oligonucleotide can include other appended
20 groups such as peptides (*e.g.*, for targeting host cell receptors *in vivo*), or agents facilitating transport across the cell membrane (see, *e.g.*, Letsinger *et al.*, 1989, *Proc. Natl. Acad. Sci. USA* 86:6553-6556; Lemaitre *et al.*, 1987, *Proc. Natl. Acad. Sci. USA* 84:648-652; PCT Publication No. WO 88/09810) or the blood-brain barrier (see, *e.g.*, PCT Publication No. WO 89/10134). In addition, oligonucleotides can be modified with
25 hybridization-triggered cleavage agents (see, *e.g.*, Krol *et al.*, 1988, *Bio/Techniques* 6:958-976) or intercalating agents (see, *e.g.*, Zon, 1988, *Pharm. Res.* 5:539-549). To this end, the oligonucleotide can be conjugated to another molecule, *e.g.*, a peptide, hybridization triggered cross-linking agent, transport agent, hybridization-triggered cleavage agent, etc.

30 The invention also includes molecular beacon nucleic acids having at least one region which is complementary to a nucleic acid of the invention, such that the molecular beacon is useful for quantitating the presence of the nucleic acid of the invention in a sample. A "molecular beacon" nucleic acid is a nucleic acid comprising a

pair of complementary regions and having a fluorophore and a fluorescent quencher associated therewith. The fluorophore and quencher are associated with different portions of the nucleic acid in such an orientation that when the complementary regions are annealed with one another, fluorescence of the fluorophore is quenched by the
5 quencher. When the complementary regions of the nucleic acid are not annealed with one another, fluorescence of the fluorophore is quenched to a lesser degree. Molecular beacon nucleic acids are described, for example, in U.S. Patent 5,876,930.

IV. Isolated Proteins and Antibodies

10 One aspect of the invention pertains to isolated proteins which correspond to individual markers of the invention, and biologically active portions thereof, as well as polypeptide fragments suitable for use as immunogens to raise antibodies directed against a polypeptide corresponding to a marker of the invention. In one embodiment, the native polypeptide corresponding to a marker can be isolated from
15 cells or tissue sources by an appropriate purification scheme using standard protein purification techniques. In another embodiment, polypeptides corresponding to a marker of the invention are produced by recombinant DNA techniques. Alternative to recombinant expression, a polypeptide corresponding to a marker of the invention can be synthesized chemically using standard peptide synthesis techniques.

20 An "isolated" or "purified" protein or biologically active portion thereof is substantially free of cellular material or other contaminating proteins from the cell or tissue source from which the protein is derived, or substantially free of chemical precursors or other chemicals when chemically synthesized. The language "substantially free of cellular material" includes preparations of protein in which the
25 protein is separated from cellular components of the cells from which it is isolated or recombinantly produced. Thus, protein that is substantially free of cellular material includes preparations of protein having less than about 30%, 20%, 10%, or 5% (by dry weight) of heterologous protein (also referred to herein as a "contaminating protein"). When the protein or biologically active portion thereof is recombinantly produced, it is
30 also preferably substantially free of culture medium, *i.e.*, culture medium represents less than about 20%, 10%, or 5% of the volume of the protein preparation. When the protein is produced by chemical synthesis, it is preferably substantially free of chemical precursors or other chemicals, *i.e.*, it is separated from chemical precursors or other

chemicals which are involved in the synthesis of the protein. Accordingly such preparations of the protein have less than about 30%, 20%, 10%, 5% (by dry weight) of chemical precursors or compounds other than the polypeptide of interest.

Biologically active portions of a polypeptide corresponding to a marker
5 of the invention include polypeptides comprising amino acid sequences sufficiently identical to or derived from the amino acid sequence of the protein corresponding to the marker, which include fewer amino acids than the full length protein, and exhibit at least one activity of the corresponding full-length protein. Typically, biologically active portions comprise a domain or motif with at least one activity of the corresponding
10 protein. A biologically active portion of a protein of the invention can be a polypeptide which is, for example, 10, 25, 50, 100 or more amino acids in length. Moreover, other biologically active portions, in which other regions of the protein are deleted, can be prepared by recombinant techniques and evaluated for one or more of the functional activities of the native form of a polypeptide of the invention.

15 Preferred polypeptides are encoded by the nucleotide sequences set forth in SEQ ID NOS:1-1046. Other useful proteins are substantially identical (*e.g.*, at least about 40%, preferably 50%, 60%, 70%, 80%, 90%, 95%, or 99%) to one of these sequences and retain the functional activity of the protein of the corresponding naturally-occurring protein yet differ in amino acid sequence due to natural allelic
20 variation or mutagenesis.

To determine the percent identity of two amino acid sequences or of two nucleic acids, the sequences are aligned for optimal comparison purposes (*e.g.*, gaps can be introduced in the sequence of a first amino acid or nucleic acid sequence for optimal alignment with a second amino or nucleic acid sequence). The amino acid residues or
25 nucleotides at corresponding amino acid positions or nucleotide positions are then compared. When a position in the first sequence is occupied by the same amino acid residue or nucleotide as the corresponding position in the second sequence, then the molecules are identical at that position. The percent identity between the two sequences is a function of the number of identical positions shared by the sequences (*i.e.*, %
30 identity = # of identical positions/total # of positions (*e.g.*, overlapping positions) x100). In one embodiment the two sequences are the same length.

The determination of percent identity between two sequences can be accomplished using a mathematical algorithm. A preferred, non-limiting example of a

mathematical algorithm utilized for the comparison of two sequences is the algorithm of Karlin and Altschul (1990) *Proc. Natl. Acad. Sci. USA* 87:2264-2268, modified as in Karlin and Altschul (1993) *Proc. Natl. Acad. Sci. USA* 90:5873-5877. Such an algorithm is incorporated into the NBLAST and XBLAST programs of Altschul, *et al.* (1990) *J. Mol. Biol.* 215:403-410. BLAST nucleotide searches can be performed with the NBLAST program, score = 100, wordlength = 12 to obtain nucleotide sequences homologous to a nucleic acid molecules of the invention. BLAST protein searches can be performed with the XBLAST program, score = 50, wordlength = 3 to obtain amino acid sequences homologous to a protein molecules of the invention. To obtain gapped alignments for comparison purposes, Gapped BLAST can be utilized as described in Altschul *et al.* (1997) *Nucleic Acids Res.* 25:3389-3402. Alternatively, PSI-Blast can be used to perform an iterated search which detects distant relationships between molecules. When utilizing BLAST, Gapped BLAST, and PSI-Blast programs, the default parameters of the respective programs (*e.g.*, XBLAST and NBLAST) can be used. See <http://www.ncbi.nlm.nih.gov>. Another preferred, non-limiting example of a mathematical algorithm utilized for the comparison of sequences is the algorithm of Myers and Miller, (1988) *CABIOS* 4:11-17. Such an algorithm is incorporated into the ALIGN program (version 2.0) which is part of the GCG sequence alignment software package. When utilizing the ALIGN program for comparing amino acid sequences, a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4 can be used. Yet another useful algorithm for identifying regions of local sequence similarity and alignment is the FASTA algorithm as described in Pearson and Lipman (1988) *Proc. Natl. Acad. Sci. USA* 85:2444-2448. When using the FASTA algorithm for comparing nucleotide or amino acid sequences, a PAM120 weight residue table can, for example, be used with a *k*-tuple value of 2.

The percent identity between two sequences can be determined using techniques similar to those described above, with or without allowing gaps. In calculating percent identity, only exact matches are counted.

The invention also provides chimeric or fusion proteins corresponding to a marker of the invention. As used herein, a "chimeric protein" or "fusion protein" comprises all or part (preferably a biologically active part) of a polypeptide corresponding to a marker of the invention operably linked to a heterologous polypeptide (*i.e.*, a polypeptide other than the polypeptide corresponding to the marker).

Within the fusion protein, the term "operably linked" is intended to indicate that the polypeptide of the invention and the heterologous polypeptide are fused in-frame to each other. The heterologous polypeptide can be fused to the amino-terminus or the carboxyl-terminus of the polypeptide of the invention.

5 One useful fusion protein is a GST fusion protein in which a polypeptide corresponding to a marker of the invention is fused to the carboxyl terminus of GST sequences. Such fusion proteins can facilitate the purification of a recombinant polypeptide of the invention.

 In another embodiment, the fusion protein contains a heterologous signal
10 sequence at its amino terminus. For example, the native signal sequence of a polypeptide corresponding to a marker of the invention can be removed and replaced with a signal sequence from another protein. For example, the gp67 secretory sequence of the baculovirus envelope protein can be used as a heterologous signal sequence (Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, NY,
15 1992). Other examples of eukaryotic heterologous signal sequences include the secretory sequences of melittin and human placental alkaline phosphatase (Stratagene; La Jolla, California). In yet another example, useful prokaryotic heterologous signal sequences include the phoA secretory signal (Sambrook *et al.*, *supra*) and the protein A secretory signal (Pharmacia Biotech; Piscataway, New Jersey).

20 In yet another embodiment, the fusion protein is an immunoglobulin fusion protein in which all or part of a polypeptide corresponding to a marker of the invention is fused to sequences derived from a member of the immunoglobulin protein family. The immunoglobulin fusion proteins of the invention can be incorporated into pharmaceutical compositions and administered to a subject to inhibit an interaction
25 between a ligand (soluble or membrane-bound) and a protein on the surface of a cell (receptor), to thereby suppress signal transduction *in vivo*. The immunoglobulin fusion protein can be used to affect the bioavailability of a cognate ligand of a polypeptide of the invention. Inhibition of ligand/receptor interaction can be useful therapeutically, both for treating proliferative and differentiative disorders and for modulating (*e.g.*
30 promoting or inhibiting) cell survival. Moreover, the immunoglobulin fusion proteins of the invention can be used as immunogens to produce antibodies directed against a polypeptide of the invention in a subject, to purify ligands and in screening assays to identify molecules which inhibit the interaction of receptors with ligands.

Chimeric and fusion proteins of the invention can be produced by standard recombinant DNA techniques. In another embodiment, the fusion gene can be synthesized by conventional techniques including automated DNA synthesizers. Alternatively, PCR amplification of gene fragments can be carried out using anchor
5 primers which give rise to complementary overhangs between two consecutive gene fragments which can subsequently be annealed and re-amplified to generate a chimeric gene sequence (see, *e.g.*, Ausubel *et al.*, *supra*). Moreover, many expression vectors are commercially available that already encode a fusion moiety (*e.g.*, a GST polypeptide). A nucleic acid encoding a polypeptide of the invention can be cloned into such an
10 expression vector such that the fusion moiety is linked in-frame to the polypeptide of the invention.

A signal sequence can be used to facilitate secretion and isolation of the secreted protein or other proteins of interest. Signal sequences are typically characterized by a core of hydrophobic amino acids which are generally cleaved from
15 the mature protein during secretion in one or more cleavage events. Such signal peptides contain processing sites that allow cleavage of the signal sequence from the mature proteins as they pass through the secretory pathway. Thus, the invention pertains to the described polypeptides having a signal sequence, as well as to polypeptides from which the signal sequence has been proteolytically cleaved (*i.e.*, the cleavage products).
20 In one embodiment, a nucleic acid sequence encoding a signal sequence can be operably linked in an expression vector to a protein of interest, such as a protein which is ordinarily not secreted or is otherwise difficult to isolate. The signal sequence directs secretion of the protein, such as from a eukaryotic host into which the expression vector is transformed, and the signal sequence is subsequently or concurrently cleaved. The
25 protein can then be readily purified from the extracellular medium by art recognized methods. Alternatively, the signal sequence can be linked to the protein of interest using a sequence which facilitates purification, such as with a GST domain.

The present invention also pertains to variants of the polypeptides corresponding to individual markers of the invention. Such variants have an altered
30 amino acid sequence which can function as either agonists (mimetics) or as antagonists. Variants can be generated by mutagenesis, *e.g.*, discrete point mutation or truncation. An agonist can retain substantially the same, or a subset, of the biological activities of the naturally occurring form of the protein. An antagonist of a protein can inhibit one or

more of the activities of the naturally occurring form of the protein by, for example, competitively binding to a downstream or upstream member of a cellular signaling cascade which includes the protein of interest. Thus, specific biological effects can be elicited by treatment with a variant of limited function. Treatment of a subject with a
5 variant having a subset of the biological activities of the naturally occurring form of the protein can have fewer side effects in a subject relative to treatment with the naturally occurring form of the protein.

Variants of a protein of the invention which function as either agonists (mimetics) or as antagonists can be identified by screening combinatorial libraries of
10 mutants, *e.g.*, truncation mutants, of the protein of the invention for agonist or antagonist activity. In one embodiment, a variegated library of variants is generated by combinatorial mutagenesis at the nucleic acid level and is encoded by a variegated gene library. A variegated library of variants can be produced by, for example, enzymatically ligating a mixture of synthetic oligonucleotides into gene sequences such that a
15 degenerate set of potential protein sequences is expressible as individual polypeptides, or alternatively, as a set of larger fusion proteins (*e.g.*, for phage display). There are a variety of methods which can be used to produce libraries of potential variants of the polypeptides of the invention from a degenerate oligonucleotide sequence. Methods for synthesizing degenerate oligonucleotides are known in the art (see, *e.g.*, Narang, 1983,
20 *Tetrahedron* 39:3; Itakura *et al.*, 1984, *Annu. Rev. Biochem.* 53:323; Itakura *et al.*, 1984, *Science* 198:1056; Ike *et al.*, 1983 *Nucleic Acid Res.* 11:477).

In addition, libraries of fragments of the coding sequence of a polypeptide corresponding to a marker of the invention can be used to generate a variegated population of polypeptides for screening and subsequent selection of variants.
25 For example, a library of coding sequence fragments can be generated by treating a double stranded PCR fragment of the coding sequence of interest with a nuclease under conditions wherein nicking occurs only about once per molecule, denaturing the double stranded DNA, renaturing the DNA to form double stranded DNA which can include sense/antisense pairs from different nicked products, removing single stranded portions
30 from reformed duplexes by treatment with S1 nuclease, and ligating the resulting fragment library into an expression vector. By this method, an expression library can be derived which encodes amino terminal and internal fragments of various sizes of the protein of interest.

Several techniques are known in the art for screening gene products of combinatorial libraries made by point mutations or truncation, and for screening cDNA libraries for gene products having a selected property. The most widely used techniques, which are amenable to high through-put analysis, for screening large gene libraries typically include cloning the gene library into replicable expression vectors, transforming appropriate cells with the resulting library of vectors, and expressing the combinatorial genes under conditions in which detection of a desired activity facilitates isolation of the vector encoding the gene whose product was detected. Recursive ensemble mutagenesis (REM), a technique which enhances the frequency of functional mutants in the libraries, can be used in combination with the screening assays to identify variants of a protein of the invention (Arkin and Yourvan, 1992, *Proc. Natl. Acad. Sci. USA* 89:7811-7815; Delgrave *et al.*, 1993, *Protein Engineering* 6(3):327- 331).

An isolated polypeptide corresponding to a marker of the invention, or a fragment thereof, can be used as an immunogen to generate antibodies using standard techniques for polyclonal and monoclonal antibody preparation. The full-length polypeptide or protein can be used or, alternatively, the invention provides antigenic peptide fragments for use as immunogens. The antigenic peptide of a protein of the invention comprises at least 8 (preferably 10, 15, 20, or 30 or more) amino acid residues of the amino acid sequence of one of the polypeptides of the invention, and encompasses an epitope of the protein such that an antibody raised against the peptide forms a specific immune complex with a marker of the invention to which the protein corresponds. Preferred epitopes encompassed by the antigenic peptide are regions that are located on the surface of the protein, *e.g.*, hydrophilic regions. Hydrophobicity sequence analysis, hydrophilicity sequence analysis, or similar analyses can be used to identify hydrophilic regions.

An immunogen typically is used to prepare antibodies by immunizing a suitable (*i.e.* immunocompetent) subject such as a rabbit, goat, mouse, or other mammal or vertebrate. An appropriate immunogenic preparation can contain, for example, recombinantly-expressed or chemically-synthesized polypeptide. The preparation can further include an adjuvant, such as Freund's complete or incomplete adjuvant, or a similar immunostimulatory agent.

Accordingly, another aspect of the invention pertains to antibodies directed against a polypeptide of the invention. The terms "antibody" and "antibody

substance" as used interchangeably herein refer to immunoglobulin molecules and immunologically active portions of immunoglobulin molecules, *i.e.*, molecules that contain an antigen binding site which specifically binds an antigen, such as a polypeptide of the invention. A molecule which specifically binds to a given

5 polypeptide of the invention is a molecule which binds the polypeptide, but does not substantially bind other molecules in a sample, *e.g.*, a biological sample, which naturally contains the polypeptide. Examples of immunologically active portions of immunoglobulin molecules include F(ab) and F(ab')₂ fragments which can be generated by treating the antibody with an enzyme such as pepsin. The invention provides

10 polyclonal and monoclonal antibodies. The term "monoclonal antibody" or "monoclonal antibody composition", as used herein, refers to a population of antibody molecules that contain only one species of an antigen binding site capable of immunoreacting with a particular epitope.

Polyclonal antibodies can be prepared as described above by immunizing

15 a suitable subject with a polypeptide of the invention as an immunogen. The antibody titer in the immunized subject can be monitored over time by standard techniques, such as with an enzyme linked immunosorbent assay (ELISA) using immobilized polypeptide. If desired, the antibody molecules can be harvested or isolated from the subject (*e.g.*, from the blood or serum of the subject) and further purified by well-known

20 techniques, such as protein A chromatography to obtain the IgG fraction. At an appropriate time after immunization, *e.g.*, when the specific antibody titers are highest, antibody-producing cells can be obtained from the subject and used to prepare monoclonal antibodies by standard techniques, such as the hybridoma technique originally described by Kohler and Milstein (1975) *Nature* 256:495-497, the human B

25 cell hybridoma technique (see Kozbor *et al.*, 1983, *Immunol. Today* 4:72), the EBV-hybridoma technique (see Cole *et al.*, pp. 77-96 In *Monoclonal Antibodies and Cancer Therapy*, Alan R. Liss, Inc., 1985) or trioma techniques. The technology for producing hybridomas is well known (see generally *Current Protocols in Immunology*, Coligan *et al.* ed., John Wiley & Sons, New York, 1994). Hybridoma cells producing a

30 monoclonal antibody of the invention are detected by screening the hybridoma culture supernatants for antibodies that bind the polypeptide of interest, *e.g.*, using a standard ELISA assay.

Alternative to preparing monoclonal antibody-secreting hybridomas, a monoclonal antibody directed against a polypeptide of the invention can be identified and isolated by screening a recombinant combinatorial immunoglobulin library (e.g., an antibody phage display library) with the polypeptide of interest. Kits for generating and screening phage display libraries are commercially available (e.g., the Pharmacia *Recombinant Phage Antibody System*, Catalog No. 27-9400-01; and the Stratagene *SurfZAP Phage Display Kit*, Catalog No. 240612). Additionally, examples of methods and reagents particularly amenable for use in generating and screening antibody display library can be found in, for example, U.S. Patent No. 5,223,409; PCT Publication No. WO 92/18619; PCT Publication No. WO 91/17271; PCT Publication No. WO 92/20791; PCT Publication No. WO 92/15679; PCT Publication No. WO 93/01288; PCT Publication No. WO 92/01047; PCT Publication No. WO 92/09690; PCT Publication No. WO 90/02809; Fuchs *et al.* (1991) *Bio/Technology* 9:1370-1372; Hay *et al.* (1992) *Hum. Antibod. Hybridomas* 3:81-85; Huse *et al.* (1989) *Science* 246:1275-1281; Griffiths *et al.* (1993) *EMBO J.* 12:725-734.

Additionally, recombinant antibodies, such as chimeric and humanized monoclonal antibodies, comprising both human and non-human portions, which can be made using standard recombinant DNA techniques, are within the scope of the invention. Such chimeric and humanized monoclonal antibodies can be produced by recombinant DNA techniques known in the art, for example using methods described in PCT Publication No. WO 87/02671; European Patent Application 184,187; European Patent Application 171,496; European Patent Application 173,494; PCT Publication No. WO 86/01533; U.S. Patent No. 4,816,567; European Patent Application 125,023; Better *et al.* (1988) *Science* 240:1041-1043; Liu *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:3439-3443; Liu *et al.* (1987) *J. Immunol.* 139:3521-3526; Sun *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:214-218; Nishimura *et al.* (1987) *Cancer Res.* 47:999-1005; Wood *et al.* (1985) *Nature* 314:446-449; and Shaw *et al.* (1988) *J. Natl. Cancer Inst.* 80:1553-1559; Morrison (1985) *Science* 229:1202-1207; Oi *et al.* (1986) *Bio/Techniques* 4:214; U.S. Patent 5,225,539; Jones *et al.* (1986) *Nature* 321:552-525; Verhoeyan *et al.* (1988) *Science* 239:1534; and Beidler *et al.* (1988) *J. Immunol.* 141:4053-4060.

Completely human antibodies are particularly desirable for therapeutic treatment of human patients. Such antibodies can be produced using transgenic mice

which are incapable of expressing endogenous immunoglobulin heavy and light chains genes, but which can express human heavy and light chain genes. The transgenic mice are immunized in the normal fashion with a selected antigen, *e.g.*, all or a portion of a polypeptide corresponding to a marker of the invention. Monoclonal antibodies directed
5 against the antigen can be obtained using conventional hybridoma technology. The human immunoglobulin transgenes harbored by the transgenic mice rearrange during B cell differentiation, and subsequently undergo class switching and somatic mutation. Thus, using such a technique, it is possible to produce therapeutically useful IgG, IgA and IgE antibodies. For an overview of this technology for producing human antibodies,
10 see Lonberg and Huszar (1995) *Int. Rev. Immunol.* 13:65-93). For a detailed discussion of this technology for producing human antibodies and human monoclonal antibodies and protocols for producing such antibodies, see, *e.g.*, U.S. Patent 5,625,126; U.S. Patent 5,633,425; U.S. Patent 5,569,825; U.S. Patent 5,661,016; and U.S. Patent 5,545,806. In addition, companies such as Abgenix, Inc. (Freemont, CA), can be
15 engaged to provide human antibodies directed against a selected antigen using technology similar to that described above.

Completely human antibodies which recognize a selected epitope can be generated using a technique referred to as "guided selection." In this approach a selected non-human monoclonal antibody, *e.g.*, a murine antibody, is used to guide the
20 selection of a completely human antibody recognizing the same epitope (Jespers *et al.*, 1994, *Bio/technology* 12:899-903).

An antibody directed against a polypeptide corresponding to a marker of the invention (*e.g.*, a monoclonal antibody) can be used to isolate the polypeptide by standard techniques, such as affinity chromatography or immunoprecipitation.
25 Moreover, such an antibody can be used to detect the marker (*e.g.*, in a cellular lysate or cell supernatant) in order to evaluate the level and pattern of expression of the marker. The antibodies can also be used diagnostically to monitor protein levels in tissues or body fluids (*e.g.* in an ovary-associated body fluid) as part of a clinical testing procedure, *e.g.*, to, for example, determine the efficacy of a given treatment regimen.
30 Detection can be facilitated by coupling the antibody to a detectable substance. Examples of detectable substances include various enzymes, prosthetic groups, fluorescent materials, luminescent materials, bioluminescent materials, and radioactive materials. Examples of suitable enzymes include horseradish peroxidase, alkaline

phosphatase, β -galactosidase, or acetylcholinesterase; examples of suitable prosthetic group complexes include streptavidin/biotin and avidin/biotin; examples of suitable fluorescent materials include umbelliferone, fluorescein, fluorescein isothiocyanate, rhodamine, dichlorotriazinylamine fluorescein, dansyl chloride or phycoerythrin; an
5 example of a luminescent material includes luminol; examples of bioluminescent materials include luciferase, luciferin, and aequorin, and examples of suitable radioactive material include ^{125}I , ^{131}I , ^{35}S or ^3H .

V. Recombinant Expression Vectors and Host Cells

10 Another aspect of the invention pertains to vectors, preferably expression vectors, containing a nucleic acid encoding a polypeptide corresponding to a marker of the invention (or a portion of such a polypeptide). As used herein, the term "vector" refers to a nucleic acid molecule capable of transporting another nucleic acid to which it has been linked. One type of vector is a "plasmid", which refers to a circular double
15 stranded DNA loop into which additional DNA segments can be ligated. Another type of vector is a viral vector, wherein additional DNA segments can be ligated into the viral genome. Certain vectors are capable of autonomous replication in a host cell into which they are introduced (*e.g.*, bacterial vectors having a bacterial origin of replication and episomal mammalian vectors). Other vectors (*e.g.*, non-episomal mammalian vectors)
20 are integrated into the genome of a host cell upon introduction into the host cell, and thereby are replicated along with the host genome. Moreover, certain vectors, namely expression vectors, are capable of directing the expression of genes to which they are operably linked. In general, expression vectors of utility in recombinant DNA techniques are often in the form of plasmids (vectors). However, the invention is
25 intended to include such other forms of expression vectors, such as viral vectors (*e.g.*, replication defective retroviruses, adenoviruses and adeno-associated viruses), which serve equivalent functions.

The recombinant expression vectors of the invention comprise a nucleic acid of the invention in a form suitable for expression of the nucleic acid in a host cell.
30 This means that the recombinant expression vectors include one or more regulatory sequences, selected on the basis of the host cells to be used for expression, which is operably linked to the nucleic acid sequence to be expressed. Within a recombinant expression vector, "operably linked" is intended to mean that the nucleotide sequence of

interest is linked to the regulatory sequence(s) in a manner which allows for expression of the nucleotide sequence (e.g., in an *in vitro* transcription/translation system or in a host cell when the vector is introduced into the host cell). The term "regulatory sequence" is intended to include promoters, enhancers and other expression control elements (e.g., polyadenylation signals). Such regulatory sequences are described, for example, in Goeddel, *Methods in Enzymology: Gene Expression Technology* vol.185, Academic Press, San Diego, CA (1991). Regulatory sequences include those which direct constitutive expression of a nucleotide sequence in many types of host cell and those which direct expression of the nucleotide sequence only in certain host cells (e.g., tissue-specific regulatory sequences). It will be appreciated by those skilled in the art that the design of the expression vector can depend on such factors as the choice of the host cell to be transformed, the level of expression of protein desired, and the like. The expression vectors of the invention can be introduced into host cells to thereby produce proteins or peptides, including fusion proteins or peptides, encoded by nucleic acids as described herein.

The recombinant expression vectors of the invention can be designed for expression of a polypeptide corresponding to a marker of the invention in prokaryotic (e.g., *E. coli*) or eukaryotic cells (e.g., insect cells {using baculovirus expression vectors}, yeast cells or mammalian cells). Suitable host cells are discussed further in Goeddel, *supra*. Alternatively, the recombinant expression vector can be transcribed and translated *in vitro*, for example using T7 promoter regulatory sequences and T7 polymerase.

Expression of proteins in prokaryotes is most often carried out in *E. coli* with vectors containing constitutive or inducible promoters directing the expression of either fusion or non-fusion proteins. Fusion vectors add a number of amino acids to a protein encoded therein, usually to the amino terminus of the recombinant protein. Such fusion vectors typically serve three purposes: 1) to increase expression of recombinant protein; 2) to increase the solubility of the recombinant protein; and 3) to aid in the purification of the recombinant protein by acting as a ligand in affinity purification. Often, in fusion expression vectors, a proteolytic cleavage site is introduced at the junction of the fusion moiety and the recombinant protein to enable separation of the recombinant protein from the fusion moiety subsequent to purification of the fusion protein. Such enzymes, and their cognate recognition sequences, include Factor Xa,

thrombin and enterokinase. Typical fusion expression vectors include pGEX (Pharmacia Biotech Inc; Smith and Johnson, 1988, *Gene* 67:31-40), pMAL (New England Biolabs, Beverly, MA) and pRIT5 (Pharmacia, Piscataway, NJ) which fuse glutathione S-transferase (GST), maltose E binding protein, or protein A, respectively, to the target recombinant protein.

Examples of suitable inducible non-fusion *E. coli* expression vectors include pTrc (Amann *et al.*, 1988, *Gene* 69:301-315) and pET 11d (Studier *et al.*, p. 60-89, In *Gene Expression Technology: Methods in Enzymology* vol.185, Academic Press, San Diego, CA, 1991). Target gene expression from the pTrc vector relies on host RNA polymerase transcription from a hybrid trp-lac fusion promoter. Target gene expression from the pET 11d vector relies on transcription from a T7 *gn10*-lac fusion promoter mediated by a co-expressed viral RNA polymerase (T7 *gn1*). This viral polymerase is supplied by host strains BL21(DE3) or HMS174(DE3) from a resident prophage harboring a T7 *gn1* gene under the transcriptional control of the lacUV 5 promoter.

One strategy to maximize recombinant protein expression in *E. coli* is to express the protein in a host bacteria with an impaired capacity to proteolytically cleave the recombinant protein (Gottesman, p. 119-128, In *Gene Expression Technology: Methods in Enzymology* vol. 185, Academic Press, San Diego, CA, 1990. Another strategy is to alter the nucleic acid sequence of the nucleic acid to be inserted into an expression vector so that the individual codons for each amino acid are those preferentially utilized in *E. coli* (Wada *et al.*, 1992, *Nucleic Acids Res.* 20:2111-2118). Such alteration of nucleic acid sequences of the invention can be carried out by standard DNA synthesis techniques.

In another embodiment, the expression vector is a yeast expression vector. Examples of vectors for expression in yeast *S. cerevisiae* include pYepSec1 (Baldari *et al.*, 1987, *EMBO J.* 6:229-234), pMFa (Kurjan and Herskowitz, 1982, *Cell* 30:933-943), pJRY88 (Schultz *et al.*, 1987, *Gene* 54:113-123), pYES2 (Invitrogen Corporation, San Diego, CA), and pPicZ (Invitrogen Corp, San Diego, CA).

Alternatively, the expression vector is a baculovirus expression vector. Baculovirus vectors available for expression of proteins in cultured insect cells (*e.g.*, Sf 9 cells) include the pAc series (Smith *et al.*, 1983, *Mol. Cell Biol.* 3:2156-2165) and the pVL series (Lucklow and Summers, 1989, *Virology* 170:31-39).

In yet another embodiment, a nucleic acid of the invention is expressed in mammalian cells using a mammalian expression vector. Examples of mammalian expression vectors include pCDM8 (Seed, 1987, *Nature* 329:840) and pMT2PC (Kaufman *et al.*, 1987, *EMBO J.* 6:187-195). When used in mammalian cells, the expression vector's control functions are often provided by viral regulatory elements. For example, commonly used promoters are derived from polyoma, Adenovirus 2, cytomegalovirus and Simian Virus 40. For other suitable expression systems for both prokaryotic and eukaryotic cells see chapters 16 and 17 of Sambrook *et al.*, *supra*.

In another embodiment, the recombinant mammalian expression vector is capable of directing expression of the nucleic acid preferentially in a particular cell type (*e.g.*, tissue-specific regulatory elements are used to express the nucleic acid). Tissue-specific regulatory elements are known in the art. Non-limiting examples of suitable tissue-specific promoters include the albumin promoter (liver-specific; Pinkert *et al.*, 1987, *Genes Dev.* 1:268-277), lymphoid-specific promoters (Calame and Eaton, 1988, *Adv. Immunol.* 43:235-275), in particular promoters of T cell receptors (Winoto and Baltimore, 1989, *EMBO J.* 8:729-733) and immunoglobulins (Banerji *et al.*, 1983, *Cell* 33:729-740; Queen and Baltimore, 1983, *Cell* 33:741-748), neuron-specific promoters (*e.g.*, the neurofilament promoter; Byrne and Ruddell, 1989, *Proc. Natl. Acad. Sci. USA* 86:5473-5477), pancreas-specific promoters (Edlund *et al.*, 1985, *Science* 230:912-916), and mammary gland-specific promoters (*e.g.*, milk whey promoter; U.S. Patent No. 4,873,316 and European Application Publication No. 264,166). Developmentally-regulated promoters are also encompassed, for example the murine hox promoters (Kessel and Gruss, 1990, *Science* 249:374-379) and the α -fetoprotein promoter (Camper and Tilghman, 1989, *Genes Dev.* 3:537-546).

The invention further provides a recombinant expression vector comprising a DNA molecule of the invention cloned into the expression vector in an antisense orientation. That is, the DNA molecule is operably linked to a regulatory sequence in a manner which allows for expression (by transcription of the DNA molecule) of an RNA molecule which is antisense to the mRNA encoding a polypeptide of the invention. Regulatory sequences operably linked to a nucleic acid cloned in the antisense orientation can be chosen which direct the continuous expression of the antisense RNA molecule in a variety of cell types, for instance viral promoters and/or enhancers, or regulatory sequences can be chosen which direct constitutive, tissue-

specific or cell type specific expression of antisense RNA. The antisense expression vector can be in the form of a recombinant plasmid, phagemid, or attenuated virus in which antisense nucleic acids are produced under the control of a high efficiency regulatory region, the activity of which can be determined by the cell type into which
5 the vector is introduced. For a discussion of the regulation of gene expression using antisense genes see Weintraub *et al.*, 1986, *Trends in Genetics*, Vol. 1(1).

Another aspect of the invention pertains to host cells into which a recombinant expression vector of the invention has been introduced. The terms "host cell" and "recombinant host cell" are used interchangeably herein. It is understood that
10 such terms refer not only to the particular subject cell but to the progeny or potential progeny of such a cell. Because certain modifications may occur in succeeding generations due to either mutation or environmental influences, such progeny may not, in fact, be identical to the parent cell, but are still included within the scope of the term as used herein.

15 A host cell can be any prokaryotic (*e.g.*, *E. coli*) or eukaryotic cell (*e.g.*, insect cells, yeast or mammalian cells).

Vector DNA can be introduced into prokaryotic or eukaryotic cells via conventional transformation or transfection techniques. As used herein, the terms "transformation" and "transfection" are intended to refer to a variety of art-recognized
20 techniques for introducing foreign nucleic acid into a host cell, including calcium phosphate or calcium chloride co-precipitation, DEAE-dextran-mediated transfection, lipofection, or electroporation. Suitable methods for transforming or transfecting host cells can be found in Sambrook, *et al.* (*supra*), and other laboratory manuals.

For stable transfection of mammalian cells, it is known that, depending
25 upon the expression vector and transfection technique used, only a small fraction of cells may integrate the foreign DNA into their genome. In order to identify and select these integrants, a gene that encodes a selectable marker (*e.g.*, for resistance to antibiotics) is generally introduced into the host cells along with the gene of interest. Preferred selectable markers include those which confer resistance to drugs, such as G418,
30 hygromycin and methotrexate. Cells stably transfected with the introduced nucleic acid can be identified by drug selection (*e.g.*, cells that have incorporated the selectable marker gene will survive, while the other cells die).

A host cell of the invention, such as a prokaryotic or eukaryotic host cell in culture, can be used to produce a polypeptide corresponding to a marker of the invention. Accordingly, the invention further provides methods for producing a polypeptide corresponding to a marker of the invention using the host cells of the invention. In one embodiment, the method comprises culturing the host cell of invention (into which a recombinant expression vector encoding a polypeptide of the invention has been introduced) in a suitable medium such that the marker is produced. In another embodiment, the method further comprises isolating the marker polypeptide from the medium or the host cell.

The host cells of the invention can also be used to produce nonhuman transgenic animals. For example, in one embodiment, a host cell of the invention is a fertilized oocyte or an embryonic stem cell into which a sequences encoding a polypeptide corresponding to a marker of the invention have been introduced. Such host cells can then be used to create non-human transgenic animals in which exogenous sequences encoding a marker protein of the invention have been introduced into their genome or homologous recombinant animals in which endogenous gene(s) encoding a polypeptide corresponding to a marker of the invention sequences have been altered. Such animals are useful for studying the function and/or activity of the polypeptide corresponding to the marker and for identifying and/or evaluating modulators of polypeptide activity. As used herein, a "transgenic animal" is a non-human animal, preferably a mammal, more preferably a rodent such as a rat or mouse, in which one or more of the cells of the animal includes a transgene. Other examples of transgenic animals include non-human primates, sheep, dogs, cows, goats, chickens, amphibians, etc. A transgene is exogenous DNA which is integrated into the genome of a cell from which a transgenic animal develops and which remains in the genome of the mature animal, thereby directing the expression of an encoded gene product in one or more cell types or tissues of the transgenic animal. As used herein, an "homologous recombinant animal" is a non-human animal, preferably a mammal, more preferably a mouse, in which an endogenous gene has been altered by homologous recombination between the endogenous gene and an exogenous DNA molecule introduced into a cell of the animal, *e.g.*, an embryonic cell of the animal, prior to development of the animal.

A transgenic animal of the invention can be created by introducing a nucleic acid encoding a polypeptide corresponding to a marker of the invention into the

male pronuclei of a fertilized oocyte, *e.g.*, by microinjection, retroviral infection, and allowing the oocyte to develop in a pseudopregnant female foster animal. Intronic sequences and polyadenylation signals can also be included in the transgene to increase the efficiency of expression of the transgene. A tissue-specific regulatory sequence(s) can be operably linked to the transgene to direct expression of the polypeptide of the invention to particular cells. Methods for generating transgenic animals via embryo manipulation and microinjection, particularly animals such as mice, have become conventional in the art and are described, for example, in U.S. Patent Nos. 4,736,866 and 4,870,009, U.S. Patent No. 4,873,191 and in Hogan, *Manipulating the Mouse Embryo*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y., 1986. Similar methods are used for production of other transgenic animals. A transgenic founder animal can be identified based upon the presence of the transgene in its genome and/or expression of mRNA encoding the transgene in tissues or cells of the animals. A transgenic founder animal can then be used to breed additional animals carrying the transgene. Moreover, transgenic animals carrying the transgene can further be bred to other transgenic animals carrying other transgenes.

To create an homologous recombinant animal, a vector is prepared which contains at least a portion of a gene encoding a polypeptide corresponding to a marker of the invention into which a deletion, addition or substitution has been introduced to thereby alter, *e.g.*, functionally disrupt, the gene. In a preferred embodiment, the vector is designed such that, upon homologous recombination, the endogenous gene is functionally disrupted (*i.e.*, no longer encodes a functional protein; also referred to as a "knock out" vector). Alternatively, the vector can be designed such that, upon homologous recombination, the endogenous gene is mutated or otherwise altered but still encodes functional protein (*e.g.*, the upstream regulatory region can be altered to thereby alter the expression of the endogenous protein). In the homologous recombination vector, the altered portion of the gene is flanked at its 5' and 3' ends by additional nucleic acid of the gene to allow for homologous recombination to occur between the exogenous gene carried by the vector and an endogenous gene in an embryonic stem cell. The additional flanking nucleic acid sequences are of sufficient length for successful homologous recombination with the endogenous gene. Typically, several kilobases of flanking DNA (both at the 5' and 3' ends) are included in the vector (see, *e.g.*, Thomas and Capecchi, 1987, *Cell* 51:503 for a description of homologous

recombination vectors). The vector is introduced into an embryonic stem cell line (*e.g.*, by electroporation) and cells in which the introduced gene has homologously recombined with the endogenous gene are selected (see, *e.g.*, Li *et al.*, 1992, *Cell* 69:915). The selected cells are then injected into a blastocyst of an animal (*e.g.*, a mouse) to form aggregation chimeras (see, *e.g.*, Bradley, *Teratocarcinomas and Embryonic Stem Cells: A Practical Approach*, Robertson, Ed., IRL, Oxford, 1987, pp. 113-152). A chimeric embryo can then be implanted into a suitable pseudopregnant female foster animal and the embryo brought to term. Progeny harboring the homologously recombined DNA in their germ cells can be used to breed animals in which all cells of the animal contain the homologously recombined DNA by germline transmission of the transgene. Methods for constructing homologous recombination vectors and homologous recombinant animals are described further in Bradley (1991) *Current Opinion in Bio/Technology* 2:823-829 and in PCT Publication NOS. WO 90/11354, WO 91/01140, WO 92/0968, and WO 93/04169.

In another embodiment, transgenic non-human animals can be produced which contain selected systems which allow for regulated expression of the transgene. One example of such a system is the *cre/loxP* recombinase system of bacteriophage P1. For a description of the *cre/loxP* recombinase system, see, *e.g.*, Lakso *et al.* (1992) *Proc. Natl. Acad. Sci. USA* 89:6232-6236. Another example of a recombinase system is the FLP recombinase system of *Saccharomyces cerevisiae* (O'Gorman *et al.*, 1991, *Science* 251:1351-1355). If a *cre/loxP* recombinase system is used to regulate expression of the transgene, animals containing transgenes encoding both the *Cre* recombinase and a selected protein are required. Such animals can be provided through the construction of "double" transgenic animals, *e.g.*, by mating two transgenic animals, one containing a transgene encoding a selected protein and the other containing a transgene encoding a recombinase.

Clones of the non-human transgenic animals described herein can also be produced according to the methods described in Wilmut *et al.* (1997) *Nature* 385:810-813 and PCT Publication NOS. WO 97/07668 and WO 97/07669.

VI. Pharmaceutical Compositions

The nucleic acid molecules, polypeptides, and antibodies (also referred to herein as "active compounds") corresponding to a marker of the invention can be incorporated into pharmaceutical compositions suitable for administration. Such compositions typically comprise the nucleic acid molecule, protein, or antibody and a pharmaceutically acceptable carrier. As used herein the language "pharmaceutically acceptable carrier" is intended to include any and all solvents, dispersion media, coatings, antibacterial and antifungal agents, isotonic and absorption delaying agents, and the like, compatible with pharmaceutical administration. The use of such media and agents for pharmaceutically active substances is well known in the art. Except insofar as any conventional media or agent is incompatible with the active compound, use thereof in the compositions is contemplated. Supplementary active compounds can also be incorporated into the compositions.

The invention includes methods for preparing pharmaceutical compositions for modulating the expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such methods comprise formulating a pharmaceutically acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such compositions can further include additional active agents. Thus, the invention further includes methods for preparing a pharmaceutical composition by formulating a pharmaceutically acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention and one or more additional active compounds.

The invention also provides methods (also referred to herein as "screening assays") for identifying modulators, *i.e.*, candidate or test compounds or agents (*e.g.*, peptides, peptidomimetics, peptoids, small molecules or other drugs) which (a) bind to the marker, or (b) have a modulatory (*e.g.*, stimulatory or inhibitory) effect on the activity of the marker or, more specifically, (c) have a modulatory effect on the interactions of the marker with one or more of its natural substrates (*e.g.*, peptide, protein, hormone, co-factor, or nucleic acid), or (d) have a modulatory effect on the expression of the marker. Such assays typically comprise a reaction between the marker and one or more assay components. The other components may be either the test

compound itself, or a combination of test compound and a natural binding partner of the marker.

The test compounds of the present invention may be obtained from any available source, including systematic libraries of natural and/or synthetic compounds.

- 5 Test compounds may also be obtained by any of the numerous approaches in combinatorial library methods known in the art, including: biological libraries; peptoid libraries (libraries of molecules having the functionalities of peptides, but with a novel, non-peptide backbone which are resistant to enzymatic degradation but which nevertheless remain bioactive; see, *e.g.*, Zuckermann *et al.*, 1994, *J. Med. Chem.* 37:2678-85); spatially addressable parallel solid phase or solution phase libraries; synthetic library methods requiring deconvolution; the 'one-bead one-compound' library method; and synthetic library methods using affinity chromatography selection. The biological library and peptoid library approaches are limited to peptide libraries, while the other four approaches are applicable to peptide, non-peptide oligomer or small
- 10 molecule libraries of compounds (Lam, 1997, *Anticancer Drug Des.* 12:145).

- Examples of methods for the synthesis of molecular libraries can be found in the art, for example in: DeWitt *et al.* (1993) *Proc. Natl. Acad. Sci. U.S.A.* 90:6909; Erb *et al.* (1994) *Proc. Natl. Acad. Sci. USA* 91:11422; Zuckermann *et al.* (1994). *J. Med. Chem.* 37:2678; Cho *et al.* (1993) *Science* 261:1303; Carrell *et al.* (1994) *Angew. Chem. Int. Ed. Engl.* 33:2059; Carell *et al.* (1994) *Angew. Chem. Int. Ed. Engl.* 33:2061; and in Gallop *et al.* (1994) *J. Med. Chem.* 37:1233.
- 20

- Libraries of compounds may be presented in solution (*e.g.*, Houghten, 1992, *Biotechniques* 13:412-421), or on beads (Lam, 1991, *Nature* 354:82-84), chips (Fodor, 1993, *Nature* 364:555-556), bacteria and/or spores, (Ladner, USP 5,223,409), plasmids (Cull *et al.*, 1992, *Proc Natl Acad Sci USA* 89:1865-1869) or on phage (Scott and Smith, 1990, *Science* 249:386-390; Devlin, 1990, *Science* 249:404-406; Cwirla *et al.*, 1990, *Proc. Natl. Acad. Sci.* 87:6378-6382; Felici, 1991, *J. Mol. Biol.* 222:301-310; Ladner, *supra.*).
- 25

- In one embodiment, the invention provides assays for screening candidate or test compounds which are substrates of a marker or biologically active portion thereof. In another embodiment, the invention provides assays for screening candidate or test compounds which bind to a marker or biologically active portion thereof. Determining the ability of the test compound to directly bind to a marker can be
- 30

accomplished, for example, by coupling the compound with a radioisotope or enzymatic label such that binding of the compound to the marker can be determined by detecting the labeled marker compound in a complex. For example, compounds (*e.g.*, marker substrates) can be labeled with ^{125}I , ^{35}S , ^{14}C , or ^3H , either directly or indirectly, and the radioisotope detected by direct counting of radioemission or by scintillation counting. Alternatively, assay components can be enzymatically labeled with, for example, horseradish peroxidase, alkaline phosphatase, or luciferase, and the enzymatic label detected by determination of conversion of an appropriate substrate to product.

In another embodiment, the invention provides assays for screening candidate or test compounds which modulate the activity of a marker or a biologically active portion thereof. In all likelihood, the marker can, *in vivo*, interact with one or more molecules, such as but not limited to, peptides, proteins, hormones, cofactors and nucleic acids. For the purposes of this discussion, such cellular and extracellular molecules are referred to herein as "binding partners" or marker "substrate".

One necessary embodiment of the invention in order to facilitate such screening is the use of the marker to identify its natural *in vivo* binding partners. There are many ways to accomplish this which are known to one skilled in the art. One example is the use of the marker protein as "bait protein" in a two-hybrid assay or three-hybrid assay (see, *e.g.*, U.S. Patent No. 5,283,317; Zervos *et al.*, 1993, *Cell* 72:223-232; Madura *et al.*, 1993, *J. Biol. Chem.* 268:12046-12054; Bartel *et al.*, 1993, *Biotechniques* 14:920-924; Iwabuchi *et al.*, 1993 *Oncogene* 8:1693-1696; Brent WO94/10300) in order to identify other proteins which bind to or interact with the marker (binding partners) and, therefore, are possibly involved in the natural function of the marker. Such marker binding partners are also likely to be involved in the propagation of signals by the marker or downstream elements of a marker-mediated signaling pathway. Alternatively, such marker binding partners may also be found to be inhibitors of the marker.

The two-hybrid system is based on the modular nature of most transcription factors, which consist of separable DNA-binding and activation domains. Briefly, the assay utilizes two different DNA constructs. In one construct, the gene that encodes a marker protein fused to a gene encoding the DNA binding domain of a known transcription factor (*e.g.*, GAL-4). In the other construct, a DNA sequence, from a library of DNA sequences, that encodes an unidentified protein ("prey" or "sample") is fused to a gene that codes for the activation domain of the known transcription factor. If

the "bait" and the "prey"-proteins are able to interact, *in vivo*, forming a marker-dependent complex, the DNA-binding and activation domains of the transcription factor are brought into close proximity. This proximity allows transcription of a reporter gene (*e.g.*, LacZ) which is operably linked to a transcriptional regulatory site responsive to the transcription factor. Expression of the reporter gene can be readily detected and cell colonies containing the functional transcription factor can be isolated and used to obtain the cloned gene which encodes the protein which interacts with the marker protein.

In a further embodiment, assays may be devised through the use of the invention for the purpose of identifying compounds which modulate (*e.g.*, affect either positively or negatively) interactions between a marker and its substrates and/or binding partners. Such compounds can include, but are not limited to, molecules such as antibodies, peptides, hormones, oligonucleotides, nucleic acids, and analogs thereof. Such compounds may also be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. The preferred assay components for use in this embodiment is an ovarian cancer marker identified herein, the known binding partner and/or substrate of same, and the test compound. Test compounds can be supplied from any source.

The basic principle of the assay systems used to identify compounds that interfere with the interaction between the marker and its binding partner involves preparing a reaction mixture containing the marker and its binding partner under conditions and for a time sufficient to allow the two products to interact and bind, thus forming a complex. In order to test an agent for inhibitory activity, the reaction mixture is prepared in the presence and absence of the test compound. The test compound can be initially included in the reaction mixture, or can be added at a time subsequent to the addition of the marker and its binding partner. Control reaction mixtures are incubated without the test compound or with a placebo. The formation of any complexes between the marker and its binding partner is then detected. The formation of a complex in the control reaction, but less or no such formation in the reaction mixture containing the test compound, indicates that the compound interferes with the interaction of the marker and its binding partner. Conversely, the formation of more complex in the presence of compound than in the control reaction indicates that the compound may enhance interaction of the marker and its binding partner.

The assay for compounds that interfere with the interaction of the marker with its binding partner may be conducted in a heterogeneous or homogeneous format. Heterogeneous assays involve anchoring either the marker or its binding partner onto a solid phase and detecting complexes anchored to the solid phase at the end of the reaction. In homogeneous assays, the entire reaction is carried out in a liquid phase. In either approach, the order of addition of reactants can be varied to obtain different information about the compounds being tested. For example, test compounds that interfere with the interaction between the markers and the binding partners (*e.g.*, by competition) can be identified by conducting the reaction in the presence of the test substance, *i.e.*, by adding the test substance to the reaction mixture prior to or simultaneously with the marker and its interactive binding partner. Alternatively, test compounds that disrupt preformed complexes, *e.g.*, compounds with higher binding constants that displace one of the components from the complex, can be tested by adding the test compound to the reaction mixture after complexes have been formed. The various formats are briefly described below.

In a heterogeneous assay system, either the marker or its binding partner is anchored onto a solid surface or matrix, while the other corresponding non-anchored component may be labeled, either directly or indirectly. In practice, microtitre plates are often utilized for this approach. The anchored species can be immobilized by a number of methods, either non-covalent or covalent, that are typically well known to one who practices the art. Non-covalent attachment can often be accomplished simply by coating the solid surface with a solution of the marker or its binding partner and drying. Alternatively, an immobilized antibody specific for the assay component to be anchored can be used for this purpose. Such surfaces can often be prepared in advance and stored.

In related embodiments, a fusion protein can be provided which adds a domain that allows one or both of the assay components to be anchored to a matrix. For example, glutathione-S-transferase/marker fusion proteins or glutathione-S-transferase/binding partner can be adsorbed onto glutathione sepharose beads (Sigma Chemical, St. Louis, MO) or glutathione derivatized microtiter plates, which are then combined with the test compound or the test compound and either the non-adsorbed marker or its binding partner, and the mixture incubated under conditions conducive to complex formation (*e.g.*, physiological conditions). Following incubation, the beads or microtiter plate wells are washed to remove any unbound assay components, the

immobilized complex assessed either directly or indirectly, for example, as described above. Alternatively, the complexes can be dissociated from the matrix, and the level of marker binding or activity determined using standard techniques.

Other techniques for immobilizing proteins on matrices can also be used
5 in the screening assays of the invention. For example, either a marker or a marker binding partner can be immobilized utilizing conjugation of biotin and streptavidin. Biotinylated marker protein or target molecules can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.*, biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well
10 plates (Pierce Chemical). In certain embodiments, the protein-immobilized surfaces can be prepared in advance and stored.

In order to conduct the assay, the corresponding partner of the immobilized assay component is exposed to the coated surface with or without the test compound. After the reaction is complete, unreacted assay components are removed
15 (*e.g.*, by washing) and any complexes formed will remain immobilized on the solid surface. The detection of complexes anchored on the solid surface can be accomplished in a number of ways. Where the non-immobilized component is pre-labeled, the detection of label immobilized on the surface indicates that complexes were formed. Where the non-immobilized component is not pre-labeled, an indirect label can be used
20 to detect complexes anchored on the surface; *e.g.*, using a labeled antibody specific for the initially non-immobilized species (the antibody, in turn, can be directly labeled or indirectly labeled with, *e.g.*, a labeled anti-Ig antibody). Depending upon the order of addition of reaction components, test compounds which modulate (inhibit or enhance) complex formation or which disrupt preformed complexes can be detected.

25 In an alternate embodiment of the invention, a homogeneous assay may be used. This is typically a reaction, analogous to those mentioned above, which is conducted in a liquid phase in the presence or absence of the test compound. The formed complexes are then separated from unreacted components, and the amount of complex formed is determined. As mentioned for heterogeneous assay systems, the order of
30 addition of reactants to the liquid phase can yield information about which test compounds modulate (inhibit or enhance) complex formation and which disrupt preformed complexes.

In such a homogeneous assay, the reaction products may be separated from unreacted assay components by any of a number of standard techniques, including but not limited to: differential centrifugation, chromatography, electrophoresis and immunoprecipitation. In differential centrifugation, complexes of molecules may be separated from uncomplexed molecules through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and densities (see, for example, Rivas, G., and Minton, A.P., *Trends Biochem Sci* 1993 Aug;18(8):284-7). Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the relatively different charge properties of the complex as compared to the uncomplexed molecules may be exploited to differentially separate the complex from the remaining individual reactants, for example through the use of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, *e.g.*, Heegaard, 1998, *J Mol. Recognit.* 11:141-148; Hage and Tweed, 1997, *J. Chromatogr. B. Biomed. Sci. Appl.*, 699:499-525). Gel electrophoresis may also be employed to separate complexed molecules from unbound species (see, *e.g.*, Ausubel *et al* (eds.), In: *Current Protocols in Molecular Biology*, J. Wiley & Sons, New York. 1999). In this technique, protein or nucleic acid complexes are separated based on size or charge, for example. In order to maintain the binding interaction during the electrophoretic process, nondenaturing gels in the absence of reducing agent are typically preferred, but conditions appropriate to the particular interactants will be well known to one skilled in the art. Immunoprecipitation is another common technique utilized for the isolation of a protein-protein complex from solution (see, *e.g.*, Ausubel *et al* (eds.), In: *Current Protocols in Molecular Biology*, J. Wiley & Sons, New York. 1999). In this technique, all proteins binding to an antibody specific to one of the binding molecules are precipitated from solution by conjugating the antibody to a polymer bead that may be readily collected by centrifugation. The bound assay components are released from the beads (through a specific proteolysis event or other technique well known in the art which will not disturb the protein-protein interaction in the complex), and a second immunoprecipitation step is performed, this time utilizing

antibodies specific for the correspondingly different interacting assay component. In this manner, only formed complexes should remain attached to the beads. Variations in complex formation in both the presence and the absence of a test compound can be compared, thus offering information about the ability of the compound to modulate interactions between the marker and its binding partner.

Also within the scope of the present invention are methods for direct detection of interactions between the marker and its natural binding partner and/or a test compound in a homogeneous or heterogeneous assay system without further sample manipulation. For example, the technique of fluorescence energy transfer may be utilized (see, *e.g.*, Lakowicz *et al*, U.S. Patent No. 5,631,169; Stavrianopoulos *et al*, U.S. Patent No. 4,868,103). Generally, this technique involves the addition of a fluorophore label on a first 'donor' molecule (*e.g.*, marker or test compound) such that its emitted fluorescent energy will be absorbed by a fluorescent label on a second, 'acceptor' molecule (*e.g.*, marker or test compound), which in turn is able to fluoresce due to the absorbed energy. Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (*e.g.*, using a fluorimeter). A test substance which either enhances or hinders participation of one of the species in the preformed complex will result in the generation of a signal variant to that of background. In this way, test substances that modulate interactions between a marker and its binding partner can be identified in controlled assays.

In another embodiment, modulators of marker expression are identified in a method wherein a cell is contacted with a candidate compound and the expression of mRNA or protein, corresponding to a marker in the cell, is determined. The level of expression of mRNA or protein in the presence of the candidate compound is compared to the level of expression of mRNA or protein in the absence of the candidate compound. The candidate compound can then be identified as a modulator of marker

expression based on this comparison. For example, when expression of marker mRNA or protein is greater (statistically significantly greater) in the presence of the candidate compound than in its absence, the candidate compound is identified as a stimulator of marker mRNA or protein expression. Conversely, when expression of marker mRNA or protein is less (statistically significantly less) in the presence of the candidate compound than in its absence, the candidate compound is identified as an inhibitor of marker mRNA or protein expression. The level of marker mRNA or protein expression in the cells can be determined by methods described herein for detecting marker mRNA or protein.

10 In another aspect, the invention pertains to a combination of two or more of the assays described herein. For example, a modulating agent can be identified using a cell-based or a cell free assay, and the ability of the agent to modulate the activity of a marker protein can be further confirmed *in vivo*, *e.g.*, in a whole animal model for cellular transformation and/or tumorigenesis.

15 This invention further pertains to novel agents identified by the above-described screening assays. Accordingly, it is within the scope of this invention to further use an agent identified as described herein in an appropriate animal model. For example, an agent identified as described herein (*e.g.*, an marker modulating agent, an antisense marker nucleic acid molecule, an marker-specific antibody, or an marker-binding partner) can be used in an animal model to determine the efficacy, toxicity, or side effects of treatment with such an agent. Alternatively, an agent identified as described herein can be used in an animal model to determine the mechanism of action of such an agent. Furthermore, this invention pertains to uses of novel agents identified by the above-described screening assays for treatments as described herein.

25 It is understood that appropriate doses of small molecule agents and protein or polypeptide agents depends upon a number of factors within the knowledge of the ordinarily skilled physician, veterinarian, or researcher. The dose(s) of these agents will vary, for example, depending upon the identity, size, and condition of the subject or sample being treated, further depending upon the route by which the composition is to be administered, if applicable, and the effect which the practitioner desires the agent to have upon the nucleic acid or polypeptide of the invention. Exemplary doses of a small molecule include milligram or microgram amounts per kilogram of subject or sample weight (*e.g.* about 1 microgram per kilogram to about 500 milligrams per kilogram,

about 100 micrograms per kilogram to about 5 milligrams per kilogram, or about 1 microgram per kilogram to about 50 micrograms per kilogram). Exemplary doses of a protein or polypeptide include gram, milligram or microgram amounts per kilogram of subject or sample weight (*e.g.* about 1 microgram per kilogram to about 5 grams per
5 kilogram, about 100 micrograms per kilogram to about 500 milligrams per kilogram, or about 1 milligram per kilogram to about 50 milligrams per kilogram). It is furthermore understood that appropriate doses of one of these agents depend upon the potency of the agent with respect to the expression or activity to be modulated. Such appropriate doses can be determined using the assays described herein. When one or more of these agents
10 is to be administered to an animal (*e.g.* a human) in order to modulate expression or activity of a polypeptide or nucleic acid of the invention, a physician, veterinarian, or researcher can, for example, prescribe a relatively low dose at first, subsequently increasing the dose until an appropriate response is obtained. In addition, it is understood that the specific dose level for any particular animal subject will depend
15 upon a variety of factors including the activity of the specific agent employed, the age, body weight, general health, gender, and diet of the subject, the time of administration, the route of administration, the rate of excretion, any drug combination, and the degree of expression or activity to be modulated.

A pharmaceutical composition of the invention is formulated to be
20 compatible with its intended route of administration. Examples of routes of administration include parenteral, *e.g.*, intravenous, intradermal, subcutaneous, oral (*e.g.*, inhalation), transdermal (topical), transmucosal, and rectal administration. Solutions or suspensions used for parenteral, intradermal, or subcutaneous application can include the following components: a sterile diluent such as water for injection,
25 saline solution, fixed oils, polyethylene glycols, glycerine, propylene glycol or other synthetic solvents; antibacterial agents such as benzyl alcohol or methyl parabens; antioxidants such as ascorbic acid or sodium bisulfite; chelating agents such as ethylenediamine-tetraacetic acid; buffers such as acetates, citrates or phosphates and agents for the adjustment of tonicity such as sodium chloride or dextrose. pH can be
30 adjusted with acids or bases, such as hydrochloric acid or sodium hydroxide. The parenteral preparation can be enclosed in ampules, disposable syringes or multiple dose vials made of glass or plastic.

Pharmaceutical compositions suitable for injectable use include sterile aqueous solutions (where water soluble) or dispersions and sterile powders for the extemporaneous preparation of sterile injectable solutions or dispersions. For intravenous administration, suitable carriers include physiological saline, bacteriostatic water, Cremophor EL (BASF; Parsippany, NJ) or phosphate buffered saline (PBS). In all cases, the composition must be sterile and should be fluid to the extent that easy syringability exists. It must be stable under the conditions of manufacture and storage and must be preserved against the contaminating action of microorganisms such as bacteria and fungi. The carrier can be a solvent or dispersion medium containing, for example, water, ethanol, polyol (for example, glycerol, propylene glycol, and liquid polyethylene glycol, and the like), and suitable mixtures thereof. The proper fluidity can be maintained, for example, by the use of a coating such as lecithin, by the maintenance of the required particle size in the case of dispersion and by the use of surfactants. Prevention of the action of microorganisms can be achieved by various antibacterial and antifungal agents, for example, parabens, chlorobutanol, phenol, ascorbic acid, thimerosal, and the like. In many cases, it will be preferable to include isotonic agents, for example, sugars, polyalcohols such as mannitol, sorbitol, or sodium chloride in the composition. Prolonged absorption of the injectable compositions can be brought about by including in the composition an agent which delays absorption, for example, aluminum monostearate and gelatin.

Sterile injectable solutions can be prepared by incorporating the active compound (*e.g.*, a polypeptide or antibody) in the required amount in an appropriate solvent with one or a combination of ingredients enumerated above, as required, followed by filtered sterilization. Generally, dispersions are prepared by incorporating the active compound into a sterile vehicle which contains a basic dispersion medium, and then incorporating the required other ingredients from those enumerated above. In the case of sterile powders for the preparation of sterile injectable solutions, the preferred methods of preparation are vacuum drying and freeze-drying which yields a powder of the active ingredient plus any additional desired ingredient from a previously sterile-filtered solution thereof.

Oral compositions generally include an inert diluent or an edible carrier. They can be enclosed in gelatin capsules or compressed into tablets. For the purpose of oral therapeutic administration, the active compound can be incorporated with excipients

and used in the form of tablets, troches, or capsules. Oral compositions can also be prepared using a fluid carrier for use as a mouthwash, wherein the compound in the fluid carrier is applied orally and swished and expectorated or swallowed.

Pharmaceutically compatible binding agents, and/or adjuvant materials
5 can be included as part of the composition. The tablets, pills, capsules, troches, and the like can contain any of the following ingredients, or compounds of a similar nature: a binder such as microcrystalline cellulose, gum tragacanth or gelatin; an excipient such as starch or lactose, a disintegrating agent such as alginic acid, Primogel, or corn starch; a lubricant such as magnesium stearate or Sterotes; a glidant such as colloidal silicon
10 dioxide; a sweetening agent such as sucrose or saccharin; or a flavoring agent such as peppermint, methyl salicylate, or orange flavoring.

For administration by inhalation, the compounds are delivered in the form of an aerosol spray from a pressurized container or dispenser which contains a suitable propellant, *e.g.*, a gas such as carbon dioxide, or a nebulizer.

15 Systemic administration can also be by transmucosal or transdermal means. For transmucosal or transdermal administration, penetrants appropriate to the barrier to be permeated are used in the formulation. Such penetrants are generally known in the art, and include, for example, for transmucosal administration, detergents, bile salts, and fusidic acid derivatives. Transmucosal administration can be
20 accomplished through the use of nasal sprays or suppositories. For transdermal administration, the active compounds are formulated into ointments, salves, gels, or creams as generally known in the art.

The compounds can also be prepared in the form of suppositories (*e.g.*, with conventional suppository bases such as cocoa butter and other glycerides) or
25 retention enemas for rectal delivery.

In one embodiment, the active compounds are prepared with carriers that will protect the compound against rapid elimination from the body, such as a controlled release formulation, including implants and microencapsulated delivery systems. Biodegradable, biocompatible polymers can be used, such as ethylene vinyl acetate,
30 polyanhydrides, polyglycolic acid, collagen, polyorthoesters, and polylactic acid. Methods for preparation of such formulations will be apparent to those skilled in the art. The materials can also be obtained commercially from Alza Corporation and Nova Pharmaceuticals, Inc. Liposomal suspensions (including liposomes having monoclonal

antibodies incorporated therein or thereon) can also be used as pharmaceutically acceptable carriers. These can be prepared according to methods known to those skilled in the art, for example, as described in U.S. Patent No. 4,522,811.

It is especially advantageous to formulate oral or parenteral compositions
5 in dosage unit form for ease of administration and uniformity of dosage. Dosage unit form as used herein refers to physically discrete units suited as unitary dosages for the subject to be treated; each unit containing a predetermined quantity of active compound calculated to produce the desired therapeutic effect in association with the required pharmaceutical carrier. The specification for the dosage unit forms of the invention are
10 dictated by and directly dependent on the unique characteristics of the active compound and the particular therapeutic effect to be achieved, and the limitations inherent in the art of compounding such an active compound for the treatment of individuals.

For antibodies, the preferred dosage is 0.1 mg/kg to 100 mg/kg of body weight (generally 10 mg/kg to 20 mg/kg). If the antibody is to act in the brain, a dosage
15 of 50 mg/kg to 100 mg/kg is usually appropriate. Generally, partially human antibodies and fully human antibodies have a longer half-life within the human body than other antibodies. Accordingly, lower dosages and less frequent administration is often possible. Modifications such as lipidation can be used to stabilize antibodies and to enhance uptake and tissue penetration (*e.g.*, into the ovarian epithelium). A method for
20 lipidation of antibodies is described by Cruikshank *et al.* (1997) *J. Acquired Immune Deficiency Syndromes and Human Retrovirology* 14:193.

The nucleic acid molecules corresponding to a marker of the invention can be inserted into vectors and used as gene therapy vectors. Gene therapy vectors can be delivered to a subject by, for example, intravenous injection, local administration
25 (U.S. Patent 5,328,470), or by stereotactic injection (see, *e.g.*, Chen *et al.*, 1994, *Proc. Natl. Acad. Sci. USA* 91:3054-3057). The pharmaceutical preparation of the gene therapy vector can include the gene therapy vector in an acceptable diluent, or can comprise a slow release matrix in which the gene delivery vehicle is imbedded. Alternatively, where the complete gene delivery vector can be produced intact from
30 recombinant cells, *e.g.* retroviral vectors, the pharmaceutical preparation can include one or more cells which produce the gene delivery system.

The pharmaceutical compositions can be included in a container, pack, or dispenser together with instructions for administration.

VII. Monitoring the Effectiveness of an Anti-Cancer Agent

As discussed above, the identified sensitivity and resistance genes can
5 also be used as markers to assess whether a tumor has become refractory to an ongoing treatment (e.g., a chemotherapeutic treatment). When a tumor is no longer responding to a treatment the expression profile of the tumor cells will change: the level of expression of one or more of the sensitivity genes will be reduced and the level of expression of one or more of the resistance genes will increase.

10 In such a use, the invention provides methods for determining whether an anti-cancer treatment should be continued in a cancer patient, comprising the steps of:

- a) obtaining two or more samples of cancer cells from a patient undergoing anti-cancer therapy;
- b) determining the level of expression of one or more genes selected
15 from the group consisting of the sensitivity genes (SEQ ID NOS:1-127, SEQ ID NOS:398-517 and SEQ ID NOS: 746-841) and the resistance genes (SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 842-1046) in the sample exposed to the agent and in a sample of cancer cells that is not exposed to the agent; and
- c) discontinuing or altering treatment when the expression of one or
20 more sensitivity genes decreases or when the expression of one or more resistance genes increases.

As used here, a patient refers to any subject undergoing treatment for cancer. The preferred subject will be a human patient undergoing chemotherapy treatment.

25 This embodiment of the present invention relies on comparing two or more samples obtained from a patient undergoing anti-cancer treatment. In general, it is preferable to obtain a first sample from the patient prior to beginning therapy and one or more samples during treatment. In such a use, a baseline of expression prior to therapy is determined and then changes in the baseline state of expression is monitored during
30 the course of therapy. Alternatively, two or more successive samples obtained during treatment can be used without the need of a pre-treatment baseline sample. In such a use, the first sample obtained from the subject is used as a baseline for determining whether the expression of a particular gene is increasing or decreasing.

In general, when monitoring the effectiveness of a therapeutic treatment, two or more samples from the patient are examined. Preferably, three or more successively obtained samples are used, including at least one pretreatment sample.

5 VIII. Detection Assays

An exemplary method for detecting the presence or absence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample involves obtaining a biological sample (*e.g.* an ovary-associated body fluid) from a test subject and contacting the biological sample with a compound or an agent
10 capable of detecting the polypeptide or nucleic acid (*e.g.*, mRNA, genomic DNA, or cDNA). The detection methods of the invention can thus be used to detect mRNA, protein, cDNA, or genomic DNA, for example, in a biological sample *in vitro* as well as *in vivo*. For example, *in vitro* techniques for detection of mRNA include Northern hybridizations and *in situ* hybridizations. *In vitro* techniques for detection of a
15 polypeptide corresponding to a marker of the invention include enzyme linked immunosorbent assays (ELISAs), Western blots, immunoprecipitations and immunofluorescence. *In vitro* techniques for detection of genomic DNA include Southern hybridizations. Furthermore, *in vivo* techniques for detection of a polypeptide corresponding to a marker of the invention include introducing into a subject a labeled
20 antibody directed against the polypeptide. For example, the antibody can be labeled with a radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

A general principle of such diagnostic and prognostic assays involves preparing a sample or reaction mixture that may contain a marker, and a probe, under
25 appropriate conditions and for a time sufficient to allow the marker and probe to interact and bind, thus forming a complex that can be removed and/or detected in the reaction mixture. These assays can be conducted in a variety of ways.

For example, one method to conduct such an assay would involve anchoring the marker or probe onto a solid phase support, also referred to as a substrate,
30 and detecting target marker/probe complexes anchored on the solid phase at the end of the reaction. In one embodiment of such a method, a sample from a subject, which is to be assayed for presence and/or concentration of marker, can be anchored onto a carrier or solid phase support. In another embodiment, the reverse situation is possible, in

which the probe can be anchored to a solid phase and a sample from a subject can be allowed to react as an unanchored component of the assay.

There are many established methods for anchoring assay components to a solid phase. These include, without limitation, marker or probe molecules which are
5 immobilized through conjugation of biotin and streptavidin. Such biotinylated assay components can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.*, biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In certain embodiments, the surfaces with immobilized assay components can be prepared
10 in advance and stored.

Other suitable carriers or solid phase supports for such assays include any material capable of binding the class of molecule to which the marker or probe belongs. Well-known supports or carriers include, but are not limited to, glass, polystyrene, nylon, polypropylene, nylon, polyethylene, dextran, amylases, natural and modified
15 celluloses, polyacrylamides, gabbros, and magnetite.

In order to conduct assays with the above mentioned approaches, the non-immobilized component is added to the solid phase upon which the second component is anchored. After the reaction is complete, uncomplexed components may be removed (*e.g.*, by washing) under conditions such that any complexes formed will
20 remain immobilized upon the solid phase. The detection of marker/probe complexes anchored to the solid phase can be accomplished in a number of methods outlined herein.

In a preferred embodiment, the probe, when it is the unanchored assay component, can be labeled for the purpose of detection and readout of the assay, either
25 directly or indirectly, with detectable labels discussed herein and which are well-known to one skilled in the art.

It is also possible to directly detect marker/probe complex formation without further manipulation or labeling of either component (marker or probe), for example by utilizing the technique of fluorescence energy transfer (see, for example,
30 Lakowicz *et al.*, U.S. Patent No. 5,631,169; Stavrianopoulos, *et al.*, U.S. Patent No. 4,868,103). A fluorophore label on the first, 'donor' molecule is selected such that, upon excitation with incident light of appropriate wavelength, its emitted fluorescent energy will be absorbed by a fluorescent label on a second 'acceptor' molecule, which in turn is

able to fluoresce due to the absorbed energy. Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer
5 between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (*e.g.*, using a
10 fluorimeter).

In another embodiment, determination of the ability of a probe to recognize a marker can be accomplished without labeling either assay component (probe or marker) by utilizing a technology such as real-time Biomolecular Interaction Analysis (BIA) (see, *e.g.*, Sjolander, S. and Urbaniczky, C., 1991, *Anal. Chem.* 63:2338-2345
15 and Szabo *et al.*, 1995, *Curr. Opin. Struct. Biol.* 5:699-705). As used herein, "BIA" or "surface plasmon resonance" is a technology for studying biospecific interactions in real time, without labeling any of the interactants (*e.g.*, BIAcore). Changes in the mass at the binding surface (indicative of a binding event) result in alterations of the refractive index of light near the surface (the optical phenomenon of surface plasmon resonance (SPR)),
20 resulting in a detectable signal which can be used as an indication of real-time reactions between biological molecules.

Alternatively, in another embodiment, analogous diagnostic and prognostic assays can be conducted with marker and probe as solutes in a liquid phase. In such an assay, the complexed marker and probe are separated from uncomplexed
25 components by any of a number of standard techniques, including but not limited to: differential centrifugation, chromatography, electrophoresis and immunoprecipitation. In differential centrifugation, marker/probe complexes may be separated from uncomplexed assay components through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and densities (see,
30 for example, Rivas, G., and Minton, A.P., 1993, *Trends Biochem Sci.* 18(8):284-7). Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel

filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the relatively different charge properties of the marker/probe complex as compared to the uncomplexed components may be exploited to differentiate the complex from

5 uncomplexed components, for example through the utilization of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, *e.g.*, Heegaard, N.H., 1998, *J. Mol. Recognit.* Winter 11(1-6):141-8; Hage, D.S., and Tweed, S.A. *J Chromatogr B Biomed Sci Appl* 1997 Oct 10;699(1-2):499-525). Gel electrophoresis may also be employed to separate

10 complexed assay components from unbound components (see, *e.g.*, Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York, 1987-1999). In this technique, protein or nucleic acid complexes are separated based on size or charge, for example. In order to maintain the binding interaction during the electrophoretic process, non-denaturing gel matrix materials and conditions in the

15 absence of reducing agent are typically preferred. Appropriate conditions to the particular assay and components thereof will be well known to one skilled in the art.

In a particular embodiment, the level of mRNA corresponding to the marker can be determined both by *in situ* and by *in vitro* formats in a biological sample using methods known in the art. The term "biological sample" is intended to include

20 tissues, cells, biological fluids and isolates thereof, isolated from a subject, as well as tissues, cells and fluids present within a subject. Many expression detection methods use isolated RNA. For *in vitro* methods, any RNA isolation technique that does not select against the isolation of mRNA can be utilized for the purification of RNA from ovarian cells (see, *e.g.*, Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*,

25 John Wiley & Sons, New York 1987-1999). Additionally, large numbers of tissue samples can readily be processed using techniques well known to those of skill in the art, such as, for example, the single-step RNA isolation process of Chomczynski (1989, U.S. Patent No. 4,843,155).

The isolated mRNA can be used in hybridization or amplification assays

30 that include, but are not limited to, Southern or Northern analyses, polymerase chain reaction analyses and probe arrays. One preferred diagnostic method for the detection of mRNA levels involves contacting the isolated mRNA with a nucleic acid molecule (probe) that can hybridize to the mRNA encoded by the gene being detected. The

nucleic acid probe can be, for example, a full-length cDNA, or a portion thereof, such as an oligonucleotide of at least 7, 15, 30, 50, 100, 250 or 500 nucleotides in length and sufficient to specifically hybridize under stringent conditions to a mRNA or genomic DNA encoding a marker of the present invention. Other suitable probes for use in the
5 diagnostic assays of the invention are described herein. Hybridization of an mRNA with the probe indicates that the marker in question is being expressed.

In one format, the mRNA is immobilized on a solid surface and contacted with a probe, for example by running the isolated mRNA on an agarose gel and transferring the mRNA from the gel to a membrane, such as nitrocellulose. In an
10 alternative format, the probe(s) are immobilized on a solid surface and the mRNA is contacted with the probe(s), for example, in an Affymetrix gene chip array. A skilled artisan can readily adapt known mRNA detection methods for use in detecting the level of mRNA encoded by the markers of the present invention.

An alternative method for determining the level of mRNA corresponding
15 to a marker of the present invention in a sample involves the process of nucleic acid amplification, *e.g.*, by rtPCR (the experimental embodiment set forth in Mullis, 1987, U.S. Patent No. 4,683,202), ligase chain reaction (Barany, 1991, *Proc. Natl. Acad. Sci. USA*, 88:189-193), self sustained sequence replication (Guatelli *et al.*, 1990, *Proc. Natl. Acad. Sci. USA* 87:1874-1878), transcriptional amplification system (Kwoh *et al.*, 1989,
20 *Proc. Natl. Acad. Sci. USA* 86:1173-1177), Q-Beta Replicase (Lizardi *et al.*, 1988, *Bio/Technology* 6:1197), rolling circle replication (Lizardi *et al.*, U.S. Patent No. 5,854,033) or any other nucleic acid amplification method, followed by the detection of the amplified molecules using techniques well known to those of skill in the art. These detection schemes are especially useful for the detection of nucleic acid molecules if
25 such molecules are present in very low numbers. As used herein, amplification primers are defined as being a pair of nucleic acid molecules that can anneal to 5' or 3' regions of a gene (plus and minus strands, respectively, or vice-versa) and contain a short region in between. In general, amplification primers are from about 10 to 30 nucleotides in length and flank a region from about 50 to 200 nucleotides in length. Under appropriate
30 conditions and with appropriate reagents, such primers permit the amplification of a nucleic acid molecule comprising the nucleotide sequence flanked by the primers.

For *in situ* methods, mRNA does not need to be isolated from the ovarian cells prior to detection. In such methods, a cell or tissue sample is prepared/processed

using known histological methods. The sample is then immobilized on a support, typically a glass slide, and then contacted with a probe that can hybridize to mRNA that encodes the marker.

As an alternative to making determinations based on the absolute expression level of the marker, determinations may be based on the normalized expression level of the marker. Expression levels are normalized by correcting the absolute expression level of a marker by comparing its expression to the expression of a gene that is not a marker, *e.g.*, a housekeeping gene that is constitutively expressed. Suitable genes for normalization include housekeeping genes such as the actin gene, or epithelial cell-specific genes. This normalization allows the comparison of the expression level in one sample, *e.g.*, a patient sample, to another sample, *e.g.*, a non-ovarian cancer sample, or between samples from different sources.

Alternatively, the expression level can be provided as a relative expression level. To determine a relative expression level of a marker, the level of expression of the marker is determined for 10 or more samples of normal versus cancer cell isolates, preferably 50 or more samples, prior to the determination of the expression level for the sample in question. The mean expression level of each of the genes assayed in the larger number of samples is determined and this is used as a baseline expression level for the marker. The expression level of the marker determined for the test sample (absolute level of expression) is then divided by the mean expression value obtained for that marker. This provides a relative expression level.

Preferably, the samples used in the baseline determination will be from ovarian cancer or from non-ovarian cancer cells of ovarian tissue. The choice of the cell source is dependent on the use of the relative expression level. Using expression found in normal tissues as a mean expression score aids in validating whether the marker assayed is ovarian specific (versus normal cells). In addition, as more data is accumulated, the mean expression value can be revised, providing improved relative expression values based on accumulated data. Expression data from ovarian cells provides a means for grading the severity of the ovarian cancer state.

In another embodiment of the present invention, a polypeptide corresponding to a marker is detected. A preferred agent for detecting a polypeptide of the invention is an antibody capable of binding to a polypeptide corresponding to a marker of the invention, preferably an antibody with a detectable label. Antibodies can

be polyclonal, or more preferably, monoclonal. An intact antibody, or ~~a fragment~~ thereof (e.g., Fab or F(ab')₂) can be used. The term "labeled", with regard to the probe or antibody, is intended to encompass direct labeling of the probe or antibody by coupling (i.e., physically linking) a detectable substance to the probe or antibody, as
5 well as indirect labeling of the probe or antibody by reactivity with another reagent that is directly labeled. Examples of indirect labeling include detection of a primary antibody using a fluorescently labeled secondary antibody and end-labeling of a DNA probe with biotin such that it can be detected with fluorescently labeled streptavidin.

Proteins from ovarian cells can be isolated using techniques that are well
10 known to those of skill in the art. The protein isolation methods employed can, for example, be such as those described in Harlow and Lane (Harlow and Lane, 1988, *Antibodies: A Laboratory Manual*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York).

A variety of formats can be employed to determine whether a sample
15 contains a protein that binds to a given antibody. Examples of such formats include, but are not limited to, enzyme immunoassay (EIA), radioimmunoassay (RIA), Western blot analysis and enzyme linked immunoabsorbant assay (ELISA). A skilled artisan can readily adapt known protein/antibody detection methods for use in determining whether ovarian cells express a marker of the present invention.

20 In one format, antibodies, or antibody fragments, can be used in methods such as Western blots or immunofluorescence techniques to detect the expressed proteins. In such uses, it is generally preferable to immobilize either the antibody or proteins on a solid support. Suitable solid phase supports or carriers include any support capable of binding an antigen or an antibody. Well-known supports or carriers include
25 glass, polystyrene, polypropylene, polyethylene, dextran, nylon, amylases, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

One skilled in the art will know many other suitable carriers for binding antibody or antigen, and will be able to adapt such support for use with the present invention. For example, protein isolated from ovarian cells can be run on a
30 polyacrylamide gel electrophoresis and immobilized onto a solid phase support such as nitrocellulose. The support can then be washed with suitable buffers followed by treatment with the detectably labeled antibody. The solid phase support can then be

washed with the buffer a second time to remove unbound antibody. The amount of bound label on the solid support can then be detected by conventional means.

The invention also encompasses kits for detecting the presence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample (e.g. an ovary-associated body fluid such as a urine sample). Such kits can be used to determine if a subject is suffering from or is at increased risk of developing ovarian cancer. For example, the kit can comprise a labeled compound or agent capable of detecting a polypeptide or an mRNA encoding a polypeptide corresponding to a marker of the invention in a biological sample and means for determining the amount of the polypeptide or mRNA in the sample (e.g., an antibody which binds the polypeptide or an oligonucleotide probe which binds to DNA or mRNA encoding the polypeptide). Kits can also include instructions for interpreting the results obtained using the kit.

For antibody-based kits, the kit can comprise, for example: (1) a first antibody (e.g., attached to a solid support) which binds to a polypeptide corresponding to a marker of the invention; and, optionally, (2) a second, different antibody which binds to either the polypeptide or the first antibody and is conjugated to a detectable label.

For oligonucleotide-based kits, the kit can comprise, for example: (1) an oligonucleotide, e.g., a detectably labeled oligonucleotide, which hybridizes to a nucleic acid sequence encoding a polypeptide corresponding to a marker of the invention or (2) a pair of primers useful for amplifying a nucleic acid molecule corresponding to a marker of the invention. The kit can also comprise, e.g., a buffering agent, a preservative, or a protein stabilizing agent. The kit can further comprise components necessary for detecting the detectable label (e.g., an enzyme or a substrate). The kit can also contain a control sample or a series of control samples which can be assayed and compared to the test sample. Each component of the kit can be enclosed within an individual container and all of the various containers can be within a single package, along with instructions for interpreting the results of the assays performed using the kit.

IX. Electronic Apparatus Readable Media and Arrays

Electronic apparatus readable media comprising a marker of the present invention is also provided. As used herein, "electronic apparatus readable media" refers to any suitable medium for storing, holding or containing data or information that can be read and accessed directly by an electronic apparatus. Such media can include, but are

not limited to: magnetic storage media, such as floppy discs, hard disc storage medium, and magnetic tape; optical storage media such as compact disc; electronic storage media such as RAM, ROM, EPROM, EEPROM and the like; general hard disks and hybrids of these categories such as magnetic/optical storage media. The medium is adapted or
5 configured for having recorded thereon a marker of the present invention.

As used herein, the term "electronic apparatus" is intended to include any suitable computing or processing apparatus or other device configured or adapted for storing data or information. Examples of electronic apparatus suitable for use with the present invention include stand-alone computing apparatus; networks, including a local
10 area network (LAN), a wide area network (WAN) Internet, Intranet, and Extranet; electronic appliances such as a personal digital assistants (PDAs), cellular phone, pager and the like; and local and distributed processing systems.

As used herein, "recorded" refers to a process for storing or encoding information on the electronic apparatus readable medium. Those skilled in the art can
15 readily adopt any of the presently known methods for recording information on known media to generate manufactures comprising the markers of the present invention.

A variety of software programs and formats can be used to store the marker information of the present invention on the electronic apparatus readable medium. For example, the nucleic acid sequence corresponding to the markers can be
20 represented in a word processing text file, formatted in commercially-available software such as WordPerfect and MicroSoft Word, or represented in the form of an ASCII file, stored in a database application, such as DB2, Sybase, Oracle, or the like, as well as in other forms. Any number of dataprocessor structuring formats (*e.g.*, text file or database) may be employed in order to obtain or create a medium having recorded
25 thereon the markers of the present invention.

By providing the markers of the invention in readable form, one can routinely access the marker sequence information for a variety of purposes. For example, one skilled in the art can use the nucleotide or amino acid sequences of the present invention in readable form to compare a target sequence or target structural
30 motif with the sequence information stored within the data storage means. Search means are used to identify fragments or regions of the sequences of the invention which match a particular target sequence or target motif.

The invention also includes an array comprising a marker of the present invention. The array can be used to assay expression of one or more genes in the array.
35 In one embodiment, the array can be used to assay gene expression in a tissue to ascertain tissue specificity of genes in the array. In this manner, up to about 36,000 genes can be simultaneously assayed for expression. This allows a profile to be developed showing a battery of genes specifically expressed in one or more tissues.

In addition to such qualitative determination, the invention allows the quantitation of gene expression. Thus, not only tissue specificity, but also the level of expression of a battery of genes in the tissue is ascertainable. Thus, genes can be grouped on the basis of their tissue expression *per se* and level of expression in that tissue. This is useful, for example, in ascertaining the relationship of gene expression between or among tissues. Thus, one tissue can be perturbed and the effect on gene expression in a second tissue can be determined. In this context, the effect of one cell type on another cell type in response to a biological stimulus can be determined. Such a determination is useful, for example, to know the effect of cell-cell interaction at the level of gene expression. If an agent is administered therapeutically to treat one cell type but has an undesirable effect on another cell type, the invention provides an assay to determine the molecular basis of the undesirable effect and thus provides the opportunity to co-administer a counteracting agent or otherwise treat the undesired effect. Similarly, even within a single cell type, undesirable biological effects can be determined at the molecular level. Thus, the effects of an agent on expression of other than the target gene can be ascertained and counteracted.

In another embodiment, the array can be used to monitor the time course of expression of one or more genes in the array.

The array is also useful for ascertaining the effect of the expression of a gene on the expression of other genes in the same cell or in different cells. This provides, for example, for a selection of alternate molecular targets for therapeutic intervention if the ultimate or downstream target cannot be regulated.

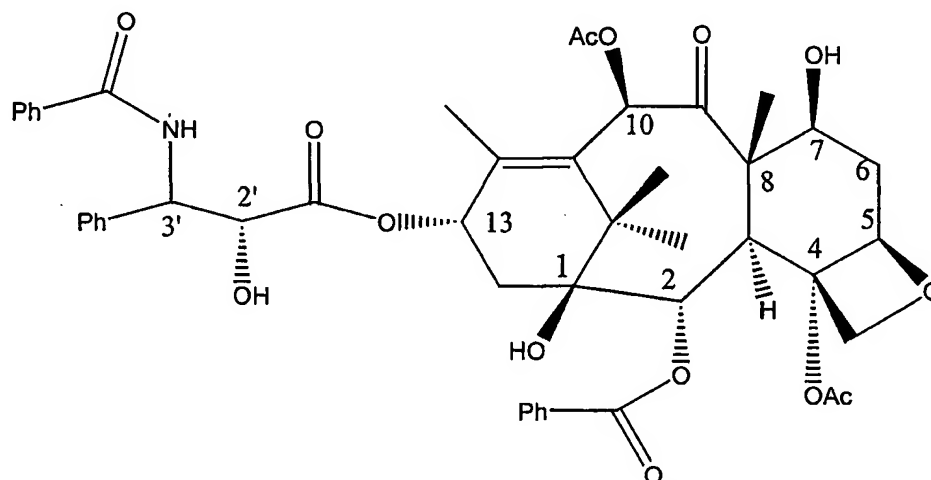
The array is also useful for ascertaining differential expression patterns of one or more genes in normal and abnormal cells. This provides a battery of genes that could serve as a molecular target for diagnosis or therapeutic intervention.

SPECIFIC EXAMPLES

At least some of the examples set forth below relate to sensitivity or resistance to TAXOL. TAXOL is a chemical compound within a family of taxane compounds which are art-recognized as being a family of related compounds. The language "taxane compound" is intended to include TAXOL, compounds which are structurally similar to TAXOL and/or analogs of TAXOL. The language "taxane compound" can also include "mimics". "Mimics" is intended to include compounds which may not be structurally similar to TAXOL but mimic the therapeutic activity of TAXOL or structurally similar taxane compounds *in vivo*. The taxane compounds of this invention are those compounds which are useful for inhibiting tumor growth in

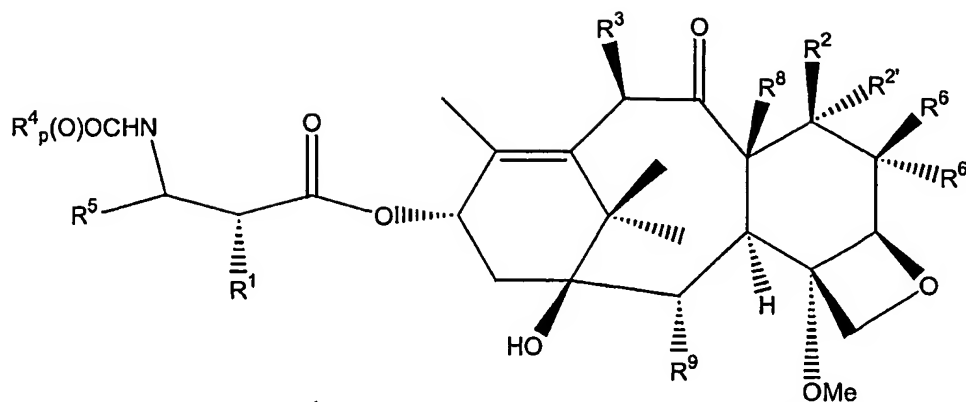
subjects (patients). The term taxane compound also is intended to include pharmaceutically acceptable salts of the compounds. Taxane compounds have previously been described in U.S. Patent Nos. 5,641,803, 5,665,671, 5,380,751, 5,728,687, 5,415,869, 5,407,683, 5,399,363, 5,424,073, 5,157,049, 5,773,464, 5 5,821,263, 5,840,929, 4,814,470, 5,438,072, 5,403,858, 4,960,790, 5,433,364, 4,942,184, 5,362,831, 5,705,503, and 5,278,324, all of which are expressly incorporated by reference.

The structure of TAXOL, shown below, offers many groups capable of being synthetically functionalized to alter the physical or pharmaceutical properties of
10 TAXOL.

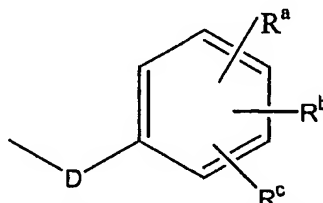


For example, a well known semi-synthetic analog of TAXOL, named Taxotere (docetaxel), has also been found to have good anti-tumor activity in animal models. Taxotere has t-butoxy amide at the 3' position and a hydroxyl group at the C10 position (U.S. 5,840,929).

15 Other examples of TAXOL derivatives include those mentioned in U.S. 5,840,929 which are directed to derivatives of TAXOL having the formula:



wherein R^1 is hydroxy, $-\text{OC}(\text{O})\text{R}^x$, or $-\text{OC}(\text{O})\text{OR}^x$; R^2 is hydrogen, hydroxy, $-\text{OC}(\text{O})\text{R}^x$, or $-\text{OC}(\text{O})\text{OR}^x$; $R^{2'}$ is hydrogen, hydroxy, or fluoro; $R^{6'}$ is hydrogen or hydroxy or $R^{2'}$ and $R^{6'}$ can together form an oxirane ring; R^3 is hydrogen, C_{1-6} alkyloxy, hydroxy, $-\text{OC}(\text{O})\text{R}^x$, $-\text{OC}(\text{O})\text{OR}^x$, $-\text{OCONR}^7\text{R}^{11}$; R^8 is methyl or R^8 and R^2 together can form a cyclopropane ring; R^6 is hydrogen or R^6 and R^2 can together form a bond; R^9 is hydroxy or $-\text{OC}(\text{O})\text{R}^x$; R^7 and R^{11} are independently C_{1-6} alkyl, hydrogen, aryl, or substituted aryl; R^4 and R^5 are independently C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, or $-\text{Z}-\text{R}^{10}$; Z is a direct bond, C_{1-6} alkyl, or C_{2-6} alkenyl; R^{10} is aryl, substituted aryl, C_{3-6} cycloalkyl, C_{2-6} alkenyl, C_{1-6} alkyl, all can be optionally substituted with one to six same or different halogen atoms or hydroxy; R^x is a radical of the formula:



wherein D is a bond or C_{1-6} alkyl; and R^a , R^b and R^c are independently hydrogen, amino, C_{1-6} alkyl or C_{1-6} alkoxy.

Further examples of R^x include methyl, hydroxymethyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, chloromethyl, 2,2,2-trichloroethyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, ethenyl, 2-propenyl, phenyl, benzyl, bromophenyl, 4-aminophenyl, 4-methylaminophenyl, 4-methylphenyl, 4-methoxyphenyl and the like. Examples of R^4 and R^5 include 2-propenyl, isobutenyl, 3-furanyl (3-furyl), 3-thienyl, phenyl, naphthyl, 4-hydroxyphenyl, 4-methoxyphenyl, 4-fluorophenyl, 4-trifluoromethylphenyl, methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, t-butyl, ethenyl, 2-propenyl, 2-propynyl, benzyl, phenethyl, phenylethenyl, 3,4-dimethoxyphenyl, 2-furanyl (2-furyl), 2-thienyl,

2-(2-furanyl)ethenyl, 2-methylpropyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cyclohexylmethyl, cyclohexylethyl and the like.

TAXOL derivatives can be readily made by following the well established paclitaxel chemistry. For example, C2, C6, C7, C10, and/or C8 position can be derivatized by essentially following the published procedure, into a compound in which R^3 , R^8 , R^2 , R^2 , R^9 , R^6 and R^6 have the meanings defined earlier. Subsequently, C4-acetyloxy group can be converted to the methoxy group by a sequence of steps. For example, for converting C2-benzoyloxy to other groups see, S. H. Chen et al, *Bioorganic and Medicinal Chemistry Letters*, Vol. 4, No. 3, pp 479-482 (1994); for modifying C10-acetyloxy see, J. Kant et al, *Tetrahedron Letters*, Vol. 35, No. 31, pp 5543-5546 (1994) and U.S. Pat. No. 5,294,637 issued Mar. 15, 1994; for making C10 and/or C7 unsubstituted (deoxy) derivatives see, European Patent Application 590 267A2 published Apr. 6, 1994 and PCT application WO 93/06093 published Apr. 1, 1993; for making $7\beta,8\beta$ -methano, 6,7- α,α -dihydroxy and 6,7-olefinic groups see, R. A. Johnson, *Tetrahedron Letters*, Vol. 35, No 43, pp 7893-7896 (1994), U.S. Pat. No. 5,254,580, issued Oct. 19, 1993, and European Patent Application 600 517A1 published Jun. 8, 1994; for making C7/C6 oxirane see, U.S. Pat. No. 5,395,850 issued Mar. 7, 1995; for making C7-epi-fluoro see, G. Roth et al, *Tetrahedron Letters*, Vol 36, pp 1609-1612 (1993); for forming C7 esters and carbonates see, U.S. Pat. No. 5,272,171 issued Dec. 21, 1993 and S. H. Chen et al., *Tetrahedron*, 49, No. 14, pp 2805-2828 (1993).

In U.S. 5,773,464, TAXOL derivatives containing epoxides at the C₁₀ position are disclosed as antitumor agents. Other C-10 taxane analogs have also appeared in the literature. Taxanes with alkyl substituents at C-10 have been reported in a published PCT patent application WO 9533740. The synthesis of C-10 epi hydroxy or acyloxy compounds is disclosed in PCT application WO 96/03394. Additional C-10 analogs have been reported in *Tetrahedron Letters* 1995, 36(12), 1985-1988; *J. Org. Chem.* 1994, 59, 4015-4018 and references therein; K. V. Rao et. al. *Journal of Medicinal Chemistry* 1995, 38 (17), 3411-3414; J. Kant et. al. *Tetrahedron Lett.* 1994, 35(31), 5543-5546; WO 9533736; WO 93/02067; U.S. Pat. No. 5,248,796; WO 9415929; and WO 94/15599.

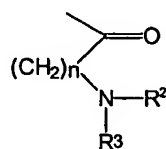
Other relevant TAXOL derivatives include the sulfenamide taxane derivatives described in U.S. 5,821,263. These compounds are characterized by the

C3' nitrogen bearing one or two sulfur substituents. These compounds have been useful in the treatment of cancers such as ovarian, breast, lung, gastric, colon, head, neck, melanoma, and leukemia.

U.S. 4,814,470 discusses TAXOL derivatives with hydroxyl or acetyl group at the C10 position and hydroxy or t-butylcarbonyl at C2' and C3' positions.

U.S. 5,438,072 discusses TAXOL derivatives with hydroxyl or acetate groups at the C10 position and a C2' substituent of either t-butylcarbonyl or benzoylamino.

U.S. 4,960,790 discusses derivatives of TAXOL which have, at the C2' and/or C7 position a hydrogen, or the residue of an amino acid selected from the group consisting of alanine, leucine, isoleucine, valine, phenylalanine, proline, lysine, and arginine, or a group of the formula:



wherein n is an integer of 1 to 3 and R² and R³ are each hydrogen on an alkyl radical having one to three carbon atoms or wherein R² and R³ together with the nitrogen atom to which they are attached form a saturated heterocyclic ring having four to five carbon atoms, with the proviso that at least one of the substituents are not hydrogen.

Other similar water soluble TAXOL derivatives are discussed in U.S. 4,942,184, U.S. 5,433,364, and in U.S. 5,278,324.

Many TAXOL derivatives may also include protecting groups such as, for example, hydroxy protecting groups. "Hydroxy protecting groups" include, but are not limited to, ethers such as methyl, t-butyl, benzyl, p-methoxybenzyl, p-nitrobenzyl, allyl, trityl, methoxymethyl, methoxyethoxymethyl, ethoxyethyl, tetrahydropyranyl, tetrahydrothiopyranyl, dialkylsilyl ethers, such as dimethylsilyl ether, and trialkylsilyl ethers such as trimethylsilyl ether, triethylsilyl ether, and t-butyldimethylsilyl ether; esters such as benzoyl, acetyl, phenylacetyl, formyl, mono-, di-, and trihaloacetyl such as chloroacetyl, dichloroacetyl, trichloroacetyl, trifluoroacetyl; and carbonates such as methyl, ethyl, 2,2,2-trichloroethyl, allyl, benzyl, and p-nitrophenyl. Additional examples of hydroxy protecting groups may be found in standard reference works such as Greene

and Wuts, *Protective Groups in Organic Synthesis*, 2d Ed., 1991, John Wiley & Sons, and McOmie; and *Protective Groups in Organic Chemistry*, 1975, Plenum Press. Methods for introducing and removing protecting groups are also found in such textbooks.

5

A. Generation of Subtracted Libraries

Subtracted libraries are generated using a PCR based method that allows the isolation of clones expressed at higher levels in one population of mRNA (tester) compared to another population (driver). Both tester and driver mRNA populations are
10 converted into cDNA by reverse transcription, and then PCR amplified using the SMART PCR kit from Clontech. Tester and driver cDNAs are then hybridized using the PCR-Select cDNA subtraction kit from Clontech. This technique results in both subtraction and normalization, which is an equalization of copy number of low-abundance and high-abundance sequences. After generation of the subtractive libraries,
15 a group of 96 or more clones from each library is tested to confirm differential expression by reverse Southern hybridization.

RNA was generated and pooled from two groups of cancer cell lines shown in Tables B and C. One group of nine cell lines was determined to be sensitive to TAXOL (Table C), the other group of nine cell lines was determined to be resistant to
20 TAXOL (Table B). Sensitivity to TAXOL was based on known GI_{50} values for these cells, which for this study was defined as the concentration of TAXOL required to inhibit growth of the cell line by 50%. More precisely, the quantity used in the calculation is the potency measure $-\log\{GI_{50}\}$. Pooled RNA from TAXOL sensitive cancer cell lines was used as tester against driver RNA pooled from TAXOL resistant
25 cancer cell lines. The results of this subtractive library are shown in SEQ ID NOS:1-127, SEQ ID NOS:398-517 and SEQ ID NOS: 746-841. Pooled RNA from TAXOL resistant cancer cell lines was used as tester against driver RNA pooled from TAXOL sensitive cancer cell lines. The results of this subtractive library are shown in SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 842-1046.

30

Table B

Tissue of Origin	TAXOL Resistant Cell Line	Log GI 50 for TAXOL
Non-small cell lung carcinoma	EKVX	-6.6
Non-small cell lung carcinoma	HOP-92	-7.2
Colon	HCT-15	-6.7
Melanoma	MALME-3M	-6.8
Melanoma	SK-MEL-28	-7.1
Ovarian	OVCAR-4	-6.3
Renal	ACHN	-5.8
Breast	MCF- 7/AdrRes	-5.5
Breast	T-47D	<u>-6.9</u>
		-6.5
		(Mean)

5

Table C

Tissue of Origin	TAXOL Sensitive Cell Line	Log GI 50 for TAXOL
Non-small cell lung carcinoma	NCI-H460	-8.5
Non-small cell lung carcinoma	NCI-H522	-8.5
Colon	HT-29	-8.6
Melanoma	SK-MEL-2	-8.3
Melanoma	SK-MEL-5	-8.4
Ovarian	OVCAR-3	-8.5

Renal	SN12C	-8.5
Breast	MCF-7	-8.5
Breast	MDA-MB-435	<u>-8.6</u>
		-8.5
		(Mean)

B. Summary of Data Provided in the Tables

- SEQ ID NOS:1-127, SEQ ID NOS:398-517 and SEQ ID NOS: 746-841
- 5 show novel nucleotide sequences that are present in the pooled RNA of the TAXOL sensitive cells. SEQ ID NOS:24-44, SEQ ID NOS:420-437 and SEQ ID NOS:765-782 are preferred, SEQ ID NOS:17-23, SEQ ID NOS:412-419 and SEQ ID NOS:759-764 are more preferred, and SEQ ID NOS: 1-16, SEQ ID NOS:398-411 and SEQ ID NOS:746-758 are most preferred.
- 10 SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 842-1046 show 271 novel nucleotide sequences that are present in the pooled RNA of the TAXOL resistant cells. SEQ ID NOS:255-362, SEQ ID NOS:616-711 and SEQ ID NOS: 942-1018 are preferred, SEQ ID NOS: 230-254, SEQ ID NOS:599-615 and SEQ ID NOS: 920-941 are more preferred, and SEQ ID NOS:128-229, SEQ ID NOS:518-
- 15 598 and SEQ ID NOS: 842-919 are most preferred.

C. Sensitivity Assays and Identification of Therapeutic and Drug Screening Targets

- A sample of cancerous cells with unknown sensitivity to a given drug is
- 20 obtained from a patient. An expression level is measured in the sample for a gene corresponding to one of the markers identified in SEQ ID NOS:1-1046. If the gene is expressed, and the marker of the invention to which the gene corresponds is listed among the markers of SEQ ID NOS:1-127, SEQ ID NOS:398-517 and SEQ ID NOS: 746-841, then the drug will be effective against the cancer. Accordingly, if the gene is
- 25 not expressed, and the marker of the invention to which the gene corresponds is listed among in the markers of SEQ ID NOS:1-127, SEQ ID NOS:398-517 and SEQ ID NOS: 746-841, then the drug will not be effective against the cancer. If the gene is expressed, and the marker of the invention to which the gene corresponds is listed among the

markers of SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 842-1046, then the drug will not be effective against the cancer. Accordingly, if the gene is not expressed, and the marker of the invention to which the gene corresponds is listed among the markers of SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 5 842-1046, then the drug will be effective against the cancer.

Thus, by examining the expression of one or more of the identified markers in a sample of cancer cells, it is possible to determine which therapeutic agent(s), or combination of agents, to use as the appropriate treatment agents.

By examining the expression of one or more of the identified markers in 10 a sample of cancer cells taken from a patient during the course of therapeutic treatment, it is also possible to determine whether the therapeutic agent is continuing to work or whether the cancer has become resistant (refractory) to the treatment protocol. For example, a cancer patient receiving a treatment of TAXOL would have cancer cells removed and monitored for the expression of a marker. If the expression level of a 15 marker remains substantially the same, the treatment with TAXOL would continue. However, a significant change in marker expression would suggest that the cancer may have become resistant to TAXOL and another chemotherapy protocol should be initiated to treat the patient.

Importantly, these determinations can be made on a patient by patient 20 basis or on an agent by agent (or combinations of agents). Thus, one can determine whether or not a particular therapeutic treatment is likely to benefit a particular patient or group/class of patients, or whether a particular treatment should be continued.

The identified markers further provide previously unknown or unrecognized targets for the development of anti-cancer agents, such as 25 chemotherapeutic compounds, and can be used as targets in developing single agent treatment as well as combinations of agents for the treatment of cancer.

Other Embodiments

30 The present invention is not to be limited in scope by the specific embodiments described that are intended as single illustrations of individual aspects of the invention and functionally equivalent methods and components are within the scope of the invention, in addition to those shown and described herein will become apparent

to those skilled in the art from the foregoing description and accompanying drawings. Such modifications are intended to fall within the scope of the appended claims.

All references cited herein, including journal articles, patents, and databases are expressly incorporated by reference.

What is claimed is:

1. An isolated nucleic acid molecule comprising a nucleotide sequence of
5 SEQ ID NOS:1-1046.
2. A vector which contains a nucleic acid molecule of claim 1.
3. A host cell which contains a nucleic acid molecule of claim 1.
10
4. An isolated polypeptide which is encoded by a nucleic acid molecule
comprising a nucleotide sequence of SEQ ID NOS:1-1046.
5. An antibody which selectively binds to a polypeptide of claim 4.
15
6. A method for determining whether TAXOL can be used to reduce the
growth of cancer cells, comprising the steps of:
 - a) obtaining a sample of cancer cells;
 - b) determining whether the cancer cells express one or more markers
20 selected from the group consisting of the sensitivity markers in SEQ ID
NOS:1-127, SEQ ID NOS:398-517 and SEQ ID NOS: 746-841; and
 - c) identifying that TAXOL can be used to reduce the growth of the
cancer cells when one or more of the sensitivity markers in SEQ ID
NOS:1-127, SEQ ID NOS:398-517 and SEQ ID NOS: 746-841 is
25 expressed by the cancer cells.
7. The method of claim 6, wherein the level of expression is determined by
detecting the amount of mRNA that is encoded by the one or more markers present in
the sample.
30
8. The method of claim 6, wherein the level of expression is determined by
detecting the amount of protein that is encoded by said one or more markers present in
the sample.

9. The method of claim 6, wherein said cancer cells are obtained from cancer cell lines or cancer cells obtained from a subject.

- 5 10. A method for determining whether TAXOL cannot be used to reduce the growth of cancer cells, comprising the steps of:
- a) obtaining a sample of cancer cells;
 - b) determining whether the cancer cells express one or more markers selected from the group consisting of the sensitivity markers identified in
10 SEQ ID NOS:1-127, SEQ ID NOS:398-517 and SEQ ID NOS: 746-841;
 and
 - c) identifying that TAXOL cannot be used to reduce the growth of the cancer cells when one or more of the sensitivity markers in SEQ ID NOS:1-127, SEQ ID NOS:398-517 and SEQ ID NOS: 746-841 is not
15 expressed by the cancer cells.

 11. The method of claim 10, wherein the level of expression is determined by detecting the amount of mRNA that is encoded by the one or more sensitivity markers present in the sample.

20

 12. The method of claim 10, wherein the level of expression is determined by detecting the amount of protein that is encoded by said one or more markers present in the sample.

25 13. The method of claim 10, wherein said cancer cells are obtained from cancer cell lines or cancer cells obtained from a subject.

14. A method for determining whether TAXOL can be used to reduce the growth of cancer cells, comprising the steps of:
- 30 a) obtaining a sample of cancer cells;
 - b) determining whether the cancer cells express one or more markers selected from the group consisting of the resistance markers in SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 842-1046; and

c) identifying that TAXOL can be used to reduce the growth of the cancer cells when one or more of the resistance markers in SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 842-1046 is not expressed by the cancer cells.

5

15. The method of claim 14, wherein the level of expression is determined by detecting the amount of mRNA that is encoded by the one or more markers present in the sample.

10 16. The method of claim 14, wherein the level of expression is determined by detecting the amount of protein that is encoded by said one or more markers present in the sample.

17. The method of claim 14, wherein said cancer cells are obtained from
15 cancer cell lines or cancer cells obtained from a subject.

18. A method for determining whether TAXOL cannot be used to reduce the growth of cancer cells, comprising the steps of:

- 20 a) obtaining a sample of cancer cells;
- b) determining whether the cancer cells express one or more markers selected from the group consisting of the resistance markers identified in SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 842-1046; and
- 25 c) identifying that TAXOL cannot be used to reduce the growth of the cancer cells when one or more of the markers in SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 842-1046 is expressed by the cancer cells.

19. The method of claim 18, wherein the level of expression is determined by
30 detecting the amount of mRNA that is encoded by the one or more markers present in the sample.

20. The method of claim 18, wherein the level of expression is determined by detecting the amount of protein that is encoded by said one or more markers present in the sample.

5 21. The method of claim 18, wherein the cancer cells are obtained from cancer cell lines or cancer cells obtained from a subject.

22. A method for determining whether TAXOL can be used to reduce the growth of cancer cells, comprising the steps of:

- 10 a) obtaining a sample of cancer cells;
- b) exposing the cancer cell to one or more test agents;
- c) determining the level of expression in the cancer cells of one or more markers selected from the group consisting of the sensitivity markers identified in SEQ ID NOS:1-127, SEQ ID NOS:398-517 and
- 15 SEQ ID NOS: 746-841 in the sample exposed to TAXOL and in a sample of cancer cells that is not exposed to TAXOL; and
- d) identifying that TAXOL can be used to reduce the growth of said cancer cells when the expression of one or more of said markers is increased in the presence of TAXOL.

20

23. The method of claim 22, wherein the level of expression is determined by detecting the amount of mRNA that is encoded by the one or more markers present in the sample.

25 24. The method of claim 22, wherein the level of expression is determined by detecting the amount of protein that is encoded by said one or more markers present in the sample.

25. The method of claim 22, wherein the cancer cells are obtained from

30 cancer cell lines or cancer cells obtained from a subject.

26. A method for determining whether TAXOL cannot be used to reduce the growth of cancer cells, comprising the steps of:

- 5
- a) obtaining a sample of cancer cells;
b) exposing the cancer cell to TAXOL;
c) determining the level of expression in the cancer cells of one or more markers selected from the group consisting of the sensitivity markers identified in SEQ ID NOS:1-127, SEQ ID NOS:398-517 and SEQ ID NOS: 746-841 in the sample exposed to TAXOL and in a sample of cancer cells that is not exposed to TAXOL; and
d) identifying that TAXOL cannot be used to reduce the growth of the cancer cells when the expression of one or more of said markers is not increased in the presence of TAXOL.
- 10

27. The method of claim 26, wherein the level of expression is determined by detecting the amount of mRNA that is encoded by the one or more markers present in the sample.

15

28. The method of claim 26, wherein the level of expression is determined by detecting the amount of protein that is encoded by said one or more markers present in the sample.

20 29. The method of claim 26, wherein the cancer cells are obtained from cancer cell lines or cancer cells obtained from a subject.

30. A method for determining whether TAXOL can be used to reduce the growth of cancer cells, comprising the steps of:

- 25
- a) obtaining a sample of cancer cells;
b) exposing the cancer cell to TAXOL;
c) determining the level of expression in the cancer cells of one or more markers selected from the group consisting of the resistance markers identified in SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 842-1046 in the sample exposed to TAXOL and in a sample of cancer cells that is not exposed to TAXOL; and
- 30

d) identifying that TAXOL can be used to reduce the growth of the cancer cells when the expression of one or more of said markers is not increased in the presence of TAXOL.

5 31. The method of claim 30, wherein the level of expression is determined by detecting the amount of mRNA that is encoded by the one or more markers present in the sample.

 32. The method of claim 30, wherein the level of expression is determined by
10 detecting the amount of protein that is encoded by said one or more markers present in the sample.

 33. The method of claim 30, wherein the cancer cells are obtained from cancer cell lines or cancer cells obtained from a subject.

15

 34. A method for determining whether TAXOL cannot be used to reduce the growth of cancer cells, comprising the steps of:

- a) obtaining a sample of cancer cells;
- b) exposing the cancer cell to TAXOL;
- 20 c) determining the level of expression in the cancer cells of one or more markers selected from the group consisting of the resistance markers identified in SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 842-1046 in the sample exposed to TAXOL and in a sample of cancer cells that is not exposed to TAXOL; and
- 25 d) identifying that TAXOL can be used to reduce the growth of the cancer cells when the expression of one or more of said markers is increased in the presence of TAXOL.

 35. The method of claim 34, wherein the level of expression is determined by
30 detecting the amount of mRNA that is encoded by the one or more markers present in the sample.

36. The method of claim 34, wherein the level of expression is determined by detecting the amount of protein that is encoded by said one or more markers present in the sample.

5 37. The method of claim 34, wherein the cancer cells are obtained from cancer cell lines or cancer cells obtained from a subject.

38. A method for determining whether treatment with TAXOL should be continued in a cancer patient, comprising the steps of:

- 10 a) obtaining two or more samples comprising cancer cells from a patient during the course of TAXOL treatment;
- b) determining the level of expression in the cancer cells of one or more markers selected from the group consisting of the sensitivity markers identified in SEQ ID NOS:1-127, SEQ ID NOS:398-517 and
- 15 SEQ ID NOS: 746-841 in the two or more samples; and
- c) continuing treatment when the expression level of one or more of the markers does not decrease during the course of treatment.

39. The method of claim 38, wherein the level of expression is determined by

20 detecting the amount of mRNA that is encoded by the one or more markers present in the sample.

40. The method of claim 38, wherein the level of expression is determined by detecting the amount of protein that is encoded by said one or more markers present in

25 the sample.

41. A method for determining whether treatment with TAXOL should not be continued in a cancer patient, comprising the steps of:

- 30 a) obtaining two or more samples comprising cancer cells from a patient during the course of TAXOL treatment;
- b) determining the level of expression in the cancer cells of one or more markers selected from the group consisting of the sensitivity

markers identified in SEQ ID NOS:1-127, SEQ ID NOS:398-517 and
SEQ ID NOS: 746-841 in the two or more samples; and

c) continuing treatment when the expression level of one or more of
the markers decreases during the course of treatment.

5

42. The method of claim 41, wherein the level of expression is determined by
detecting the amount of mRNA that is encoded by the one or more markers present in
the sample.

10 43. The method of claim 41, wherein the level of expression is determined by
detecting the amount of protein that is encoded by said one or more markers present in
the sample.

44. A method for determining whether treatment with TAXOL should not be
15 continued in a cancer patient, comprising the steps of:

a) obtaining two or more samples comprising cancer cells from a
patient during the course of TAXOL treatment;
b) determining the level of expression in the cancer cells of one or
more markers selected from the group consisting of the resistance
20 markers identified in SEQ ID NOS:128-397, SEQ ID NOS:518-745 and
SEQ ID NOS: 842-1046 in the two or more samples; and
c) discontinuing treatment when the expression level of one or more
of the markers does not decrease during the course of treatment.

25 45. The method of claim 44, wherein the level of expression is determined by
detecting the amount of mRNA that is encoded by the one or more markers present in
the sample.

30 46. The method of claim 44, wherein the level of expression is determined by
detecting the amount of protein that is encoded by said one or more markers present in
the sample.

47. A method for determining whether treatment with TAXOL should be continued in a cancer patient, comprising the steps of:

- a) obtaining two or more samples comprising cancer cells from a patient during the course of TAXOL treatment;
- 5 b) determining the level of expression in the cancer cells of one or more markers selected from the group consisting of the resistance markers identified in SEQ ID NOS:128-397, SEQ ID NOS:518-745 and SEQ ID NOS: 842-1046 in the two or more samples; and
- 10 c) continuing treatment when the expression level of one or more of the markers does not increase during the course of treatment.

48. The method of claim 47, wherein the level of expression is determined by detecting the amount of mRNA that is encoded by the one or more markers present in the sample.

15

49. The method of claim 47, wherein the level of expression is determined by detecting the amount of protein that is encoded by said one or more markers present in the sample.

SEQUENCE LISTING

<110> Millennium Predictive Medicine, Inc.

<120> NOVEL GENES, COMPOSITIONS AND METHODS
FOR THE IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY
OF HUMAN CANCERS

<130> MRI-016BPC

<150> 60/197,538

<151> 2000-04-13

<160> 1046

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 169

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(169)

<223> n = A,T,C or G

<400> 1

```
cccttgcggn cgncgggaca ggtactnang gctgnggatc agcgnagann aatacagact 60
agctaagaga taattggagg gggggatgat gggaaccctg ggtccattac actagtcctt 120
ctacttttgt atacctgaca gttcccataa tacaaaagttt ttaaaaacc 169
```

<210> 2

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(507)

<223> n = A,T,C or G

<400> 2

```
cccttagcgt ggtcgcggcc gaggtacagt cacggggcag agcttgcata gggatccagg 60
tgttactagt ctactcttgg agctggtcca actcagtttc atggcacaga actagattag 120
gtctccactg cgcagtctgt ttactgott agggaaagcc agcttttcta cccacacacg 180
tttagtttga agagtatcta tttttggagg gttctttggg aggttgggca ggcttctttg 240
gatcccagat acatttagag ctttttgcac taagtgtgag gaaaataact tctctttgat 300
gatgttgata caccatgtg ggcaccctgg ggcacagcgg tttagctggg gagattccat 360
gagaatgaac ccaaactact cttctttgct agggtccttt acccacacag aggtgaagcc 420
tttcaggttc ttcattttgc ttaagtttct tcccttggcc ttggcattta agaagcatnc 480
attgtgttag ccagccaaaa gccccct 507
```

<210> 3

<211> 399

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(399)

<223> n = A,T,C or G

<400> 3

```

ccctttcgag cggccgcccc ggcagggtacc tgctgtgtgc ttataatcct gttttaaagc 60
aagagaaaagg agccataaaa agattaaaaat aaatgaagtc tgcagaaggc aaagccattt 120
gacatcctcc caagtaaatac ctttaaagca gccagctcct tcagggggct ttggctggct 180
aacacatgga tgcctcttaa atgccaagga caagggaaga aactaagcaa aatgaagaac 240
ctgaaaggct cacctctgtg tgggtaaagg accctagcaa agaagaagta gtttgggttc 300
attctcatgg aatctcccca gctaaaccgc tgtgccccaa ggtgcccaca tngngtatca 360
acatcatcaa agaggaagnt attttcctca cacttaatg 399

```

<210> 4

<211> 519

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(519)

<223> n = A,T,C or G

<400> 4

```

cccttagcgt ggtcgcgccc gnggtacagt cacggggcag ancttgcata gggatccagg 60
tggtactagt cttactctgg agctgggtcca actcagtttc atggcacaga actagattag 120
gtctccactg cgcagtctgt tttactgctt agggaaagcc agcttttcta cccacacacc 180
gttttagttt aagagtatct atttttggag ggttcttttg gaggttgggc aggtctcttt 240
ggatcccaag atacatttag agctttttgc attaagtgtg aggaaaataa cttctctttg 300
atgatgttga tacaccatgt gggcaccctg gggcacaagc ggttttagctg gggagattcc 360
atgagaatga acccaaacta ctcttctttg ctagggnocct ttaccacacac agagggngag 420
ccttttcaag gtcttcattt tgcttangtt tcttcccttt gncctttggc atttaagaag 480
catncattgt ggttaagccc aagcccaaaa gccccctt 519

```

<210> 5

<211> 400

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(400)

<223> n = A,T,C or G

<400> 5

```

ccctttcnag cggccgcccc gncaggtncc tgctgtgngc ttataanccn gttttaaagc 60
nagagaaaagg agccntanaa agattaaaaat aaatgaagnc tgnngaaggc aaagccattt 120
gacatcctcc caagtaaatac ctttaaagca gccagctcct tcagggggct ttggctggct 180
aacacatgga tgcctcttaa atgccaagga caagggaaga aactaagcaa aatgaagaac 240
ctgaaaggct cacctctgtg tgggtaaagg accctagcaa agaagagtag tttgggttca 300
ttctcatgga atctccccag ctaaaccgct gtgccccaaag gtgcccacat tggngtatca 360
ncatcatcaa agaaaaagtt atnttcctca ccttaatgca 400

```

<210> 6

<211> 153

<212> DNA

<213> Homo sapiens

<400> 6

```

gggtctgaga cctgtgctgc ttggtgcacc cagtgtgagt catgaaaggc cctctgtggt 60
gggcatcaca ggtctccttg agtttattgc tgtgcaaagt ggaggacttt agtttctttt 120
tcaacatcaa gctgtgacct cggccgctct aga 153

```


<210> 7
 <211> 149
 <212> DNA
 <213> Homo sapiens

<400> 7
 ccgcgggtggg ggtctgagac ctgtgctgct tgggtgcaccc agtgtgagtc atgaaaggcc 60
 ctctgtggtg ggcatcacag gtctccttga gtttattgct gtgcaaagtg gaggacttta 120
 gtttcttttt caacatcaag ctgtgacct 149

<210> 8
 <211> 443
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(443)
 <223> n = A,T,C or G

<400> 8
 cnaattggag ctccccgcgg tggcggccgc ccgggcaggt actccagcct gggtgacaga 60
 gcgagaccct gcctctaaaa taaaaggctg cacaacactc aactacgtca gtaaaaagac 120
 agggtaagg agcaataagt gatgcttggg caatcatggg agatacacag gagtcaggct 180
 gcctgtcag cgaaccactc attccaacat ccagacagcg gtcaaagata cacctgcaga 240
 tgcccatcag gaaatntgaa ttggttgagc ttgaanaggc aatggggggg agtgtcacct 300
 gtggcaaaact agagaatgct tatctatatt aaaggggggca acccagctga ctattattgc 360
 caagtggcaa ttcaaaccga atactgccaa gttttctgat tctaattgaa atcagagaaa 420
 aagaaaacct acaaaacaga cct 443

<210> 9
 <211> 441
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(441)
 <223> n = A,T,C or G

<400> 9
 nagccgggag ncataaagggt gtnaaagcct ggggntgccc taatgtaggt gaagcctaac 60
 ntcacatnta attgcnggnt gcagcctcac gtgccccgcc tttcccagat cgnngaanaa 120
 ccctgtctgt tgcccagctg gcattttaat ggaatacggg ncnaaccncc nccgggggag 180
 naggcgggta ttggcnttat tgnngcgncct nttcccgcct tntctgcgca tcaactgacct 240
 ngctgcggct tcagggtccg tttcnggctt gcgggaagaa ggcggaatc aagccttnca 300
 acttccaaaa agnncgnnta aataacgagt ttatcccacc aggaaattca gggngttaat 360
 aaccgccagg gaaaaanaaa catgtggaag ccaaaaaggc caagnanan aaggcncagt 420
 gaaaccctta aaaaaaaggg c 441

<210> 10
 <211> 683
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(683)
 <223> n = A,T,C or G

```

<400> 10
acactgcctt cttggacgct ttaaagnnct tcgctcttgg cttcagactt taggcagggtg 60
tncacggtag acttcctttc ttctgccacc attatggagg gggcacnana anataccna 120
gnaacagcgg acgtttcaat aaaataccct cctagccccg tctgntcaa gttatacaa 180
tttcaagctt gtgacatcgn gggggccent ggccgagnt tgctcnttca ggggaccccc 240
cagnaagtc cgggggagng ncctnaggtt tttttggatg nggggaaagg ggcaccccc 300
ccagnttccc caacaaccaa aacncctggc cccccggggg gccnggggnc cggccttcnt 360
taggaaaacc ttaaggttgn gggattcccc cccccggggg nccttgcca agngggaaa 420
ttttccgtaa ttantttcaa aaggntttt taattccngg aattaacccc ggntgccgga 480
acccnttcn taagtggggg gggggggggc cccccgggt ttaaccncc aagnccttt 540
ttntggtttt cccccctttt tttaagnttg gaaggggggt ttttaaaatt ttgggcnagc 600
cggccttttt ggggcccgtt aaaaattcca attngggggg cccaattaag gnccttggn 660
gtttcccccct tgggggggtt ggg 683

```

```

<210> 11
<211> 382
<212> DNA
<213> Homo sapiens

```

```

<400> 11
ggcggccgag gtacattgaa aagccatgtt cccttgtaga aagaaaaatg ctgttgccctt 60
ttgggttgat tctattatct gatgttttat taatctctgt gaaataattg tgtaaattaa 120
tatagagact agttgagaaa tgggtggataa catgaagaag ataccattt ttgcatagat 180
tagatgtgat caacctcaca ctatcatatg aaagtggct gcattggaga gacaggaatt 240
aatattaaaa atgttttcag ttcagattga tatcttacct ttccaaatat tttttcttt 300
tgaatatgtg gtataagtaa tctgctttta agtcctattt taagttgggt gcagtggctc 360
gcacctgtaa tcccaccatt tt 382

```

```

<210> 12
<211> 446
<212> DNA
<213> Homo sapiens

```

```

<400> 12
ctatagggcg aattggagct ccccgcggtg gcggccgagc ctgatggaag agagggctgt 60
gtgtcacagg gattcccaag ccactaaagc acattcccag gaccatatca tcgggagcat 120
cattgctgta gcatcgacat ttactggcga gaagtctcct gacggcttct ctgctgaaga 180
ccattcctcc tctcccgtg atgtagctgt agccaccagt gccaggccg tagccgtagc 240
gctctcccag aaacacaggc ttgccggagt cataacagct aagcaagtgc tggagcctgg 300
agatacttat taatgtatca tcatccacaa tgactaacca tgctgttttg tctggctac 360
gattcagaaa tctttccaaa atggcaaatg tctttccaca atgacctcta tctgtattag 420
gaattcccaa atccacagta ggaatg 446

```

```

<210> 13
<211> 428
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(428)
<223> n = A,T,C or G

```

```

<400> 13
tagggcgaat tgancncggt ggcgccgccc cgggcaggta cctcaaggct ggcctcaacc 60
caccggccaa ccagcgccgc cgctgccgag cgcagaggag ggaaggaata gccccgttgt 120
ggtgggattt aagcgtcctg ttccacgctc cagaaccctt gagatgggaa ggaccttgga 180
gagcacctga taaaagcctt tcccgttccc tattgccgcg gatggggagc ttgtcccctc 240
gaggcaaaga gcatacaggc gtgttgggat gactgggttt tgctggtctt caatcttgta 300
accgttgga tttggtttca ctaccctgct ntnttctatt ctgccctnat tcttcagang 360
aagaaagagg ntggataana tgntgggaac cctaagntng aagggnagaa cccgggggaa 420

```

aaaaggga

<210> 14
 <211> 497
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(497)
 <223> n = A,T,C or G

<400> 14
 ccgggcaggt acctagaata gtggttctcg aagaatgcgg cctgcagatc ctgggagtcc 60
 caagaccctt tcagggagga tctgtgaggt caactgttgg cactgtggca tgaatcaagg 120
 tgggtggcagc aaacttctag tagttttgat atgtccttga tagaacaat agcaatgggt 180
 aactattaaa tgttgacctg gccagcgcag tggctcatgc ctgtaatccc agcactttgg 240
 gaggtgagg cgggcggatc acctgaggtc gggagttcga ggccagcctt gaccaacatg 300
 gagaaacccc gntttttttt aaaattccaa atttagctgg gcatggngg tgcatgcctg 360
 taattccagc tactcgggag gctgaggcaa gaaaatcgct tgaatcccg aggtggagg 420
 tgcagtgagc ccgagatcat accattgcac ttccaaccca agcaacaaga gtgaaaccct 480
 gtcttaaaaa gaaaaaa 497

<210> 15
 <211> 497
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(497)
 <223> n = A,T,C or G

<400> 15
 ccgggcaggt acctagaata gtggttctcg aagaatgcgg cctgcagatc ctgggagtcc 60
 caagaccctt tcagggagga tctgtgaggt caactgttgg cactgtggca tgaatcaagg 120
 tgggtggcagc aaacttctag tagttttgat atgtccttga tagaacaat agcaatgggt 180
 aactattaaa tgttgacctg gccagcgcag tggctcatgc ctgtaatccc agcactttgg 240
 gaggtgagg cgggcggatc acctgaggtc gggagttcga ggccagcctg accaacaatg 300
 agaaaccccg tctcttctaa aaatacaaaa ttagctgggc atggtgtgtc atgccttcta 360
 attccagcta ctccggaggc tgaggcaaga gaatcgctt aatccggtag gtggagggtg 420
 cagtgagccg agatcatacc attgccttca gccangcaa caagagggtga aaccctgttt 480
 taaaaagaaa aaaaaaa 497

<210> 16
 <211> 440
 <212> DNA
 <213> Homo sapiens

<400> 16
 acttagggcg aattggagct cccgcgggtg gcggccgccc gggcaggtac cctataaatt 60
 tatacaata aaagagttta agggagttca aggatgccat atatatattt taaaaaatt 120
 tctaaggga gtctaaaaaa cataaattat aatattacc aaaataagat gctacttttc 180
 acctaaccac gtccctgcctc atttcacact ttaacctcct aagtatatc ataactctac 240
 caaaagtgtg tttctttaa aagtaagaaa ctttagggcc agcgcaatgg tgcaagcctg 300
 taatccctgc actttgggag gccgaggcag gtgaatcctt taaggtcagg agttcgagac 360
 cagcctggcc aacatggtga gacacactcc cccaccctg ccagtcctc agtaaaaaatg 420
 caaaaattag ccgggcccgtg 440

<210> 17
 <211> 227

<212> DNA

<213> Homo sapiens

<400> 17

```

tccagggcgt acaacttggg gaaacaatcc cggatggcac ttacataggc ggactgggtcc 60
gagaagggtg tgcaaacagg gttcccttct agccatagct cttcgagctt cagccctttc 120
accttgccca actcccacgc cgactccagc ttatttttgg agagattcag ggtcttgact 180
ttgggagcct tctctgtaat gtcagaaagg ccatccagct ggtacct 227

```

<210> 18

<211> 263

<212> DNA

<213> Homo sapiens

<400> 18

```

tatagggcga attggagctc ccgcggtgg cggccgtcca ggcgtaacaa cttggggaaa 60
caatcccggg tggcacttac ataggcggac tgggtccgaga aggtgctgca caacgggttc 120
ccttctagcc atagctcttc gagcttcagc cctttcacct tgcccaactc ccacgctgac 180
tccagcttat ttttggagag attcagggtc ttgactttgg gaggccttctc tgtaatgtca 240
gaaaggccat ccagctggta cct 263

```

<210> 19

<211> 265

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(265)

<223> n = A,T,C or G

<400> 19

```

ccgcggtggc ggccgtccag gcgtaacaac ttggggaaac aatcccggat ggcacttaca 60
taggcggact ggtccgagaa ggtgctgcac aacgggttcc cttctagcca tagctcttcg 120
agcttcagcc ctttcacctt gcccaactcc cacgctgact tcagcttatt tttggagaga 180
ttcaagggtc ttgactttgg ggagccttct tttgtaatgt cagaaanggc catncaagct 240
ggtaccttng gccgctctag aacta 265

```

<210> 20

<211> 260

<212> DNA

<213> Homo sapiens

<400> 20

```

aggcggaatt ggagctcccc gcggtggcgg ccgtccaggc gtaacaactt ggggaaacaa 60
tcccggatgg cacttacata ggcggactgg tccgagaagg tgctgcacaa cgggttccct 120
tctagccata gctcttcgag cttcagccct ttacacttgc ccaactccca cgccgactcc 180
agcttatttt tggagagatt cagggtcttg actttgggag ctttctctgt aatgtcagaa 240
aggccatcca gctggtacct 260

```

<210> 21

<211> 313

<212> DNA

<213> Homo sapiens

<400> 21

```

aggtactaca aagctcagtc ccagatgag ggggcccttg tcaccgcagc caggaaacttt 60
ggttttgttt tccgctctcg ccccccaaa acaatcaccg tccatgagat gggcacagcc 120
atcacctacc agctgctggc catcctggac ttcaacaaca tccgcaagcg gatgtcggtc 180
atagtgcgga atccagaggg gaagatccga ctctactgca aaggggctga cactatccta 240
ctggacagac tgcaccactc cactcaagag ctgctcaaca ccaccatgga ccaccttaat 300

```

gagtacctgc ccg

313

<210> 22

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(346)

<223> n = A,T,C or G

<400> 22

```

agggcggaatt ggagctcacc gcggtggcgg ccgaggtact acaaagctca gtccccagat 60
gagggggccc tggtcaccgc agccaggaac tttggttttg ntttccgctc tcgcaccccc 120
aaaacaatca ccgtccatga gatgggcaca gccatcacct accagctgct ggccatcctg 180
gacttcaaca acatccgcaa gcggatgtcg gtcatagtgc ggaatccaga gggaagatc 240
cgactctact gcaaaggggc tgacactatn ctactggaca gactgcacca ctncactcaa 300
gagctgntca acaccacat ggaccacctt aatgagtacc tgcccg 346

```

<210> 23

<211> 263

<212> DNA

<213> Homo sapiens

<400> 23

```

cttagggcga attggagctc cccgcggtgg cggccgtcca ggcgtaacaa cttggggaaa 60
caatcccga tggcacttac ataggcggac tgggtccgaga aggtgctgca caacgggttc 120
ccttctagcc atagctcttc gagcttcagc cctttcacct tgcccaactc ccacgctgac 180
tccagcttat ttttgagag attcagggtc ttgactttgg gagccttctc tgtaatgtca 240
gaaaggccat ccagctggta cct 263

```

<210> 24

<211> 564

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(564)

<223> n = A,T,C or G

<400> 24

```

ccctttggag cggccgcccg ggcaggtaca tatgatctaa tttagaaagt ccagaattgg 60
cttcatacag aaaagtgatt actttcattt tacaaattac tttaaaattt tggtaaagt 120
tctgttaggc ttctgggtcta cagtgaggta ttttaaaaat aaagggtata ttagaatcct 180
caacagatct cttaaataatt acctcctgtg taaccaccac caaatcctat ctctaccac 240
aattaccct tcccccaatg ccaagaccac agcacaataa tgaatatttt tattgaagt 300
cgatatcat aaataagttg caaaaataaga agttggatat atttttaatt cacaatagaa 360
aaagttgaca acatagaaaa tgctgctttg cactgaaata cttaaaatta tgaaagt 420
caagtaaaga aattaaagcc ttttataaaa atccaccac cattcttgat tttcatttt 480
atggaacttg gatcagaaaa attcatcttt ttttaaccct gccctaaatt tttcttgng 540
gaattaaata gaagtaaact nttt 564

```

<210> 25

<211> 389

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(389)

<223> n = A,T,C or G

<400> 25

```

ccgcggtggc ggccgaggta ctctcaggg tcttttcaga gatgccctcg ataaatttca 60
agacagcttt ggcctgggtc agagtcttac agcagtccac caacacaccc acaggctggg 120
tgtcctgcaa gctctccttc aactccctca gctccagatc agaaggacca agactctcat 180
ccggagtctg gggaggcagg gcctccatgg tggcaacgtg ggaggagatg ggcaggatgt 240
tgagctggtc atcaatgacg agacacttct tacaagaggc cagagacaga ataaaccttt 300
cattaaatct tcccaccaca tctgatggg cctcagttct gtacctgccg gggcggnccg 360
ctctagaact aggtggatcc cccgggctg
389

```

<210> 26

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(450)

<223> n = A,T,C or G

<400> 26

```

tnggcgaatt ggagctcccc gcggtggcgg ccgaggtaca gtaatcctgc ctgatagagt 60
agtctggaat gagaattact ttttgggtga gagagtctc cattttaatg tttctaaagt 120
ttttcatatg aacttggcat tggaaaaggg aggtaaagaa aaaggacgtt tactaaaagc 180
agtgtctact cttccccttt gtgagtgttt attcatggct aatgaaaaaa agagaaggac 240
tcttgggttt tgtgttgcca tgtaagcat ggagagggat gcttgacagc atgctaattg 300
aagccagagc aagtatgtcc ttcacaggt aatcaggaac tcttcagttg aagctgagga 360
actaactgat tagttgntg atcataatat aattggttac aaagtgggaa gtgccagctg 420
gcttaagtac ctgcccgggc ggccgctcta
450

```

<210> 27

<211> 544

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(544)

<223> n = A,T,C or G

<400> 27

```

gctccccgcg gtggcgcccg cccgggcagg taanagaact tctatgcaca cctccctgag 60
agtctgggaa ccttcaccgc tgacctgtgt gagatgttcc cagcaggcat ttatgacacc 120
aaatatgctg ctgagtttca tgcccgtttc gtggcctcct acttagaata tgccttccgg 180
aaatgtgaac gggaaaatgg gaagcagcgg gcagctggca gccacacact taccctggag 240
ttcttgcaac tattccttcc agcntggggg gaccatattt gattacccgn tggttggctg 300
gccccagca ancccaccg tccttaatcc caccagcatt cttgtggaca accttcttcg 360
ggcttatggg cttgggtgcc ccctggggac cacaagtgtc ctcaagtctc accgatattg 420
accttatcat tgacactgat gaggtgcgg cagaggacaa gcggcgacgg cgacgacgta 480
ggggaaaaac ggaagagggc ttttattgaa cctaccgggg acacagacct ntgggggaag 540
gcta
544

```

<210> 28

<211> 619

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(619)

<223> n = A,T,C or G

<400> 28

```

cgaattggag ctccccgcgg tggcggccgc ccgggcagggt acctgagaag gcagctcacg 60
aaaccaggc ctgtgatcct ggacccggcg gaccctacag gaaacttggg tggaggagac 120
ccaaaggggt ggaggcagct ggcacaagag gctgaggcct ggctgaatta cccatgcttt 180
aagaattggg atgggtcccc agtgagctcc tggattctgc tgatgagaca aaggctcaga 240
gaggtgaggn cactttgggt naaggccttc anctaacaag tgggnggaaa tgggaattcaa 300
gctcaagtgg acttttaaaag nccagtgtc atgtcactgt gctaaacaag cctgccttgt 360
cacatcccca cctntcatct gaccaatggg agactctgag cagctgagtg acttgggttg 420
tcacacagct aaacaggggc aaaggaccca gtcttgatc tttccacctc caaagcagga 480
atcttgtctg attccagggg gattgatgat gttgcagatg gctaggaagc agactccagg 540
atgggnattt taagtatgca gggatgttct gggggagagc ccactgggaa ccaagcactt 600
aangggaang gggggaaag                                     619

```

<210> 29

<211> 484

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(484)

<223> n = A,T,C or G

<400> 29

```

cnattggagc tccccgcggg ggccggccgag gtactggaac agggataagt tcttggataa 60
ggtgccaaac tacctataaa agctgatttt tgagtaaatt attgattcta acatatgtaa 120
tggatttggg gtgataattt tctgatcttt aactataagt gactttttat tctccaccag 180
aaaagataaa tgactgagaa tgtaagtctg cgctctgatt aacacaatgg agaaacggaa 240
aaactatctc tgnntaaaaa ctgnntcccn gcattcttct gatatcaaat aagaaggaag 300
ggaaataaac cttttttgng gtgtagatag aaaaacatac ctgaggccag gtgcagtggg 360
tccacgcctt gtaatcccag cacttttggg agggccaaggc ngggccagat cagctgaggt 420
caggagtctg agaccagcct ggccaacatg gtgaaatcac cgtctctact aaaaatacaa 480
aaat                                     484

```

<210> 30

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(507)

<223> n = A,T,C or G

<400> 30

```

cgaatggact ccaccgcggg ggccggccgcc cgggcaggac aagctttttt tttttttttt 60
ttttttttt ttttgcaga gagcaagttt atttggtgaa tgctgacggc aaacattatc 120
caagagagac aagatgggaa agttgntnan acaagaaaag cctagggaaa ctttttngnt 180
tagatncaaa nattnnacac cngggnaaan gggcncggac cttcttgggg gaanactggg 240
gnaaaggntc ctttaatccn attttaagna cccaatgncg gnacctaagc ttcttgntgg 300
gaaaaaggga aaaggggtgg gggattgaag cccatgnggg aaacaagggg ntttgatggg 360
aangggggg ttacccttg ggcccgncct cttaagaaca tnnngnggga ttcncccccc 420
ggggcnttgg cnagggaaaa ttctgataat tnaaaggcnt tnattcnnaa ttanccccgt 480
ccnnancctt nngaaggggg gggggggg                                     507

```

<210> 31

<211> 602

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(602)

<223> n = A,T,C or G

<400> 31

```
gttaattgcg cgcgttggcn gtaatcatgn gtcataagct ggttttcctg tgtgaaattt 60
gttatccngc tcacaaattc cacaccaacc ataaccggaa gcccggggta agcattaaaa 120
aagngtaaaa agcctnnggn gggtggccta aattggaagg tngangctaa actccacatt 180
taaattgccg gttggcgcnt cacctgcacc cgcttttcca agtacggggg aaaaaccctt 240
gggccgttgc ccaagtcttg ccatttataaa atgaaattcc gggggccaaac cgccgcgggg 300
ngnggaagga gggccnggtt ttnggccggt aatttggggg ccgcctcttc ccggctttct 360
cttcgctcaa cttggacttc gcttgccgcc tcgggggttc gttccgggct tggcgggcga 420
ggccgggtta tcaagactca cttcaaaaag ggccgggtta ataccgggtt attccaccaa 480
gaaatcaggg ggggataaac cgccaaggga aaagaaacaa ttgttgnaag caaaaaaggg 540
cccanccnaa aaaggggcca agggaaccgc taaaaaaagg ccccgccgtt gncttggggc 600
gt 602
```

<210> 32

<211> 472

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(472)

<223> n = A,T,C or G

<400> 32

```
ccgggcaggt gccagcgccg cgctcatttt tccaggtaga cctactctgt ggaacggaag 60
tgccctagct gctttgtttt tgtagcactt gctggctgaa tttttctttt gctaatacgt 120
aaccagaaaag tctggttaga gggggctcaa ctcaatccct ttggtcccca gcgccagaac 180
aagagttaat tctggaaaat tcagtacctc ggccgctcta gtaactagt gnatcccccc 240
gggcctgcag ggaattcgat atccaagcgt tatcggtac ccgtcgacct cgaggggggg 300
ggcccggtac ccagcttntt gttcccttta gtgagnggtt aaatttgccg ccgccttggc 360
gttaatcatg ggncattagg ctgtttctct gtgtgaaaat tgttatcccg ctcaacaattc 420
tcacaccaac catacagggc ncgggnagcc ataaaaggtg ttaaaagccc tg 472
```

<210> 33

<211> 593

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(593)

<223> n = A,T,C or G

<400> 33

```
ttggagctcc accgnngngg cggccgaggt aactcgtct tgaataggct aaaggttggt 60
cttcagggtt tggcagtc aa ggctccaggg tttggtgaca atagaaagaa ccagcttaaa 120
gatatggcta ttgctactgg tgggtgcagt tttggagaan aggnattga cccctgaatc 180
ttggaaggac cgttcagccc tcatgactta aggaaaaagt ttggagaggg tcatttgtga 240
cccaaagacg attgccatgc tccttaaaaa gggaaaaagg tgacaaaggc tcaaaattga 300
aaaaacgtat tttcaagnaa aatcaattng agcaagtta gatgtcacia actaagttna 360
atattgaaaa agggaaaaaa cttgaaatga acnggctttg canaaaactt tnaanaatgg 420
gaagtgggcc tgggtgcttg aagggtttgg gtggngacca aagttgaatt gtttgaaagt 480
tgaantgana aaaggaanag gaccaggagt tcaccaggat ggcccnttta aatggcctan 540
caaagaagct tgcttgnttg gaannaaagg cctttggttt ttgggggagg ggg 593
```


<210> 34
 <211> 258
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(258)
 <223> n = A,T,C or G

<400> 34
 tccaccgcgg tggcggccga ggtacctcct gggaaagggg ccgctgctgt ctggtgccct 60
 gtgagctgtg attgattgcc ttggtcagt aatgcgttca ggagtccaca ccaggcacag 120
 atggggcctt gaaacgcttt gtcatgcttn ttcaagtacc ttgccccggg gccggcncgc 180
 tctagaacta gtgggatccc ccgggcctgc agggaattcc gatatcaagc ttatcgatta 240
 cccgtcggac tctcgagg 258

<210> 35
 <211> 486
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(486)
 <223> n = A,T,C or G

<400> 35
 gccgaggtac cactgcccac attcctgggt gctggaggga gcctggcntt cggaacgctc 60
 ntctgcattg ccattgttct gaggaatcat tctgcctgaa aaacgtgtgg tggccttaat 120
 ggcacagcct ggcttgaaga tgaggcagga gtgggaaagt gccaatcca agaagcaagg 180
 agggaaactt gctcacaccc cttccagaag caatggaacc gtctcccctc tcaccaccaa 240
 ggtcacacag gaaaggnacac cagcaggaac atcatattga tgctaattggc cccctcccca 300
 tttccctggt gccatctttt accccttgaa ctactgtacc ttgcccgggc ggcccgctcg 360
 atgcgttgcg cttacttgcc cgntttccaa gtccgggaaa acctggccgt gccaaagcttg 420
 catttaaatg naatcgggac aaccccnccg gggagagggc ggttttgogt aattgggcgg 480
 cttttt 486

<210> 36
 <211> 440
 <212> DNA
 <213> Homo sapiens

<400> 36
 aggtgtggaa ctgaggatgc agcattcaag gttctatctt ggaagcagag actgtgccct 60
 caccagatgc tgaacctgct gagcaccctg atcttccact tcaccttcat cagaactact 120
 ggggctgtgg ctgagatgtc acatggcaga taggatcaca aatttctgtt gtatctggat 180
 ggagatcagc aggaggatct atgggtgaga agaagcacag ttacagatgg attctagagc 240
 ctgcttgctg acacaggctt gcaactgcgg actttataag cttagttttt aatctgctat 300
 cagctagcat aataccataa atgcataaaa aactaagtat tcagtcttac gagaaatgct 360
 atcttgacct gaccctttct ccaaataaat tgacaaaata tctcatcgtc taggatgcca 420
 gacagaaata ccagttgcaa 440

<210> 37
 <211> 518
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(518)

<223> n = A,T,C or G

<400> 37

```
tacttagggc gaattggagc tccccgcggt ggccggccgc ccgggcaggg tactagttaa 60
attctgatct ctctctagaa ggcagaaacc acatcccaca ctctatgca atttgttatt 120
ttggtattgt aaagtaaatg aataagaagg ggtggaggca taaagaaat ctagtttctg 180
gctgggcagg gtggttcacg cttgtaatcc cgcactttgg gaggccaagg cgggtggatc 240
acgaggtcag gagattgagg atcatcctgg ccaacatggt gaaaccccg tttctactaa 300
aaatacaaaa attagccggg cttggtgaca tgcgcctgna gtnctagcta ctccggaggc 360
ttaggcaggg gaattacttt nactggaagt gggaangttt tcaattaacc caagaaccgc 420
accattgcnc tnccagcctt gggcaacnag ggnngagact tttttnttc aaaaaaattt 480
aaatttnaat ttaaaattta aaanccaaan gaaaaaaa 518
```

<210> 38

<211> 323

<212> DNA

<213> Homo sapiens

<400> 38

```
ccgcgggtggc ggccgctgtg gttttgcatg tgagatgtgt ggtgggggcg gtagaaaggc 60
ttttctgcca ttttcgattt tttaatgatg aggggcctag aatagcaaag gatcggcggg 120
ggttgcctag cttgcctgag tgctgtttta gctttggggg ggtttgatgt ttgtattgct 180
atgaggattc cagttgatga gggaggccag gcattgtaag ttgaccagcc aggtgctggg 240
gaactatgat ttggaaatct ttacgtgcg ttgtttaggc agtggcatta gactgctttt 300
acaggtagga agcagacatt ccc 323
```

<210> 39

<211> 250

<212> DNA

<213> Homo sapiens

<400> 39

```
ccgggcaggg tgccgggggc tgggatacacc atgccccttg cccgtctcgc accttgcctc 60
tgtctgtaac ccccagcac ctccgcagg cctggacgct ttatccctct ccttagcccc 120
aggagcgtgt ttcaggaaact ctctcacct ctgtgtcttg tggtttgacg tgatcagggc 180
caaagcggtc aagtgagaag gaagtggact ctggaaacga catttatggc aaccctatca 240
agaggatcca 250
```

<210> 40

<211> 378

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(378)

<223> n = A,T,C or G

<400> 40

```
nattggagct ccccgcggtg gcggccgagg tgaaaaagt attctgaaga tggggacgaa 60
ggaaaatgaa aaatctaaaa cttcagattc ttcaaatgac gaatctagtt caatagaaga 120
cagttcttcc gattctgaat cagagtcaga acctgaaagt gaatctgaat ccagaagagt 180
cactaaggag aaaaaaaaaa agcttgctaa gttctgctac gaggtggccc tggaatactt 240
gaattctggc tgatggtgta aacagctctg caaacaatcc ctttcatacc acaaagccaa 300
gaccgttcca tgggtatttg gcaaaagaga tgaagacttc tcaatatgct tattttgctt 360
tgcataattg gctctttt 378
```

<210> 41

<211> 156

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(156)

<223> n = A,T,C or G

<400> 41

```
ggcnattgga gctcnccgcg gtggcgcccg aggtacaagc tttttttttt tttttttttt 60
tttttttttt tttttttttt ttttttaagg caaagcacag cccaagcccn tttnttggtt 120
gngagttgga aagggtntac cgggggtncc tgcccg 156
```

<210> 42

<211> 313

<212> DNA

<213> Homo sapiens

<400> 42

```
ctacttaggg cgaattggag ctccccgcgg tggcgccga ggtacaaagt tttatatgat 60
agtgtcttgc tgccgtgttc tacaaaagcc aagggtgtaa cattaatgc aattttgcaa 120
ggggctgagg tgatgtgggc caagtatgta atcacttcag ggagccatat gtgaccttca 180
tacactgttg ataattggccc atgcctccca gtcaggcctg tgacacctgc tggacagcag 240
gcattccaag gccctaagc actgagttag ctggtaaagg ttaaggaaaa agctgtattc 300
ttactacttt act 313
```

<210> 43

<211> 348

<212> DNA

<213> Homo sapiens

<400> 43

```
acttagggcg aattggagct ccccgcggtg gcggccgagg tacaaagttt tatatgatag 60
tgtcttgcct cctgtttcta caaaagccaa ggggtgtaaca ttaaagtcaa ttttgcaagg 120
ggctgaggtg atgtggtcca agtatgtaat cacttcaggg agccatatgt gaccttcata 180
cactgttgat aatggccatg cctcccagtc aggcctgtga cacctgctgg acagcaggca 240
ttccaaggcc cctaagcact gagttagctg gtaaaggtta aggaaaaagc tgtattctta 300
ctactttact ccaaggtagt aaagtgtatg gaaagatgta cctgcccc 348
```

<210> 44

<211> 222

<212> DNA

<213> Homo sapiens

<400> 44

```
ccgggcaggt acaatggaac tgtattttcc caaaatgttg cagatcagtt acaacaaaca 60
gaacggcgac cgtcaaggaa aactgtcact ctgggctcct ttttgaccac agcagctatg 120
cggaagcagc tgcagcttcg ataaggcca aggggcaatt cagatcccag ggcgcccgcc 180
taaagcctca cctgtccatc attactacct gcttaagtac ct 222
```

<210> 45

<211> 461

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(461)

<223> n = A,T,C or G

<400> 45

```
cccttagcgt ggtcgcggcc gaggtacaag ctttttttct tttttttttt tttttttttt 60
```

```

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttttt ttttttggnct tcnggaaaaan cnaaaaaaac natgggggct ngatgngggg 180
gntnnnnccct nnnatcccnn cnntttnggn ggccnagggg ggnaaancnn ttgnnccnnan 240
gnnttttnnaa ncncccnggg caanncggn aaannccctnc ccgggggggnc nttaangggg 300
aattccnanc nnntgggggn cgtttctagg ggganncnag nttgggacca agcttggggg 360
gaaacagggg caaaagtgtt tcccngggga aaatnttntc ccntcaaant nccccaaaaa 420
aaaaaaaaag cccggaaaaan annaaaagnn gtaaaaacc c 461

```

<210> 46
 <211> 240
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(240)
 <223> n = A,T,C or G

```

<400> 46
ttataaaatt aacngccggc agtgtgctgg aattcgccct ttcgagcggn cgnccgggca 60
ggttctgtaa agactaaaag gcgttngctc tgagngngac aaggnggaaa cttncatgtg 120
tntcctgcca ggctctgncc ccctacgcca tcccnacacg tccccgttcc cccgaaacct 180
gnctnagtgc aatactccca ttgncatggg gtccttcacc atggnatttt tntggaaacc 240

```

<210> 47
 <211> 368
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(368)
 <223> n = A,T,C or G

```

<400> 47
cccttcggcc gcccgggcag gtacaagcta tttttttttt ttttttttta ttnccttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
ttaatttttt nnnngannan aatttttnaa anntattgan tttaaaaata aaaaaaaatt 180
tttttttttn aaaaantttt ttttttttna aaatttttaa acnnnttaaa aaaaaaaaan 240
aatggntngg naaaaaaaa aaacncatta aaaaaattnn gnnggaaang ggnaaaantt 300
tnantttttt attaaaaaaa naaaagggng tnggtttttt ttttaaaaaa aaaaanaaat 360
tttttttt 368

```

<210> 48
 <211> 345
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(345)
 <223> n = A,T,C or G

```

<400> 48
cccttagcgt ggtcgcggcc gaggtactcc agcctgggca acagagggag actccatcta 60
gactccatct cananaaaaa aaaaaaaaaa aaaaaaaaaa aaaggantat tctaagcact 120
agaactacat aagaatgtcc taaagcactg tatctaagca cttgaaaaga atgggacttt 180
tcggttttag ggagataact attagcaacc acacaatatg ttatctttat ggatgaataa 240
cttctggtaa tgacaccagg ggtcttacag ctacatcatt tataaaatca tgnggtcaag 300
ttttcacaca agcctgcaca atcgttctga catgcccttt ttttc 345

```

<210> 49
 <211> 599
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(599)
 <223> n = A,T,C or G

<400> 49
 cccttagcgt ggtcgcggcc gaggtacaag ctntnttttt tttttttttt tttttttttt 60
 tttttttttt tttttttttt tngggttttt aaaaactttt tttnttgga accgncaggt 120
 ttcaaaagt gaaggncttg ngggngggac cnanggtttc cattatnccc ccctccaatt 180
 atttnttanc taggntgnat tnatTTacgn tgancanag ccctnaatnc cnncccgggc 240
 ggncggnnagg gcgaattnca ntacantggc ggnngtttct aggggatnct anctnggnnc 300
 caagcttggg ggnatnatng ccataactnn ttcctgggtg aaattggtat ccgntcccaa 360
 ttcccaccaa nnttnccagc ccgggancan aaaagtgtan aaggcggggg ngnnnctaata 420
 gggnggaaac ttaccccna aantaaattt gggngtggn gtttaattta cccggttttt 480
 tcnctggggg ggnanccttt ntngggggcc cncntcctt ttnantaaat tcngeccanc 540
 ccccccgggg gngagggggg ggtttttggg gaaanaaggc cgnntttttt ccctttttt 599

<210> 50
 <211> 267
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(267)
 <223> n = A,T,C or G

<400> 50
 cccttagcgt ggtcgcggcc gaggtacaag cttttttttt tttttttttt tttttttttt 60
 ttcttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 ttttttttng ggggggccc tcaggtttnt nggggaaaa ananangggg gcccttntt 180
 gngggccncc cangggcann ancnnttgca acttgngggg gggtcagggg aancnggggn 240
 ttnttggggn nccnccaaaa aaaacct 267

<210> 51
 <211> 227
 <212> DNA
 <213> Homo sapiens

<400> 51
 cccttagcgt ggtcgcggcc gaggtactaa ccactcccaa ccccaacccc cagtgtagag 60
 tgccctaaga gtaaaagaac tgtaatgagg acaatctggt atccaaattc attcaagtgt 120
 gttactgagc tgtttagcaa caacatatgt agcaatcacc ctcaaaacgc aagctgcacc 180
 totggggagg aagccctggt acctgcccg ggcggccgctc gaaaggg 227

<210> 52
 <211> 507
 <212> DNA
 <213> Homo sapiens

<400> 52
 cccttagcgt ggtcgcggcc gaggtactac gaagctgcag atcattacgc tgatatgaat 60
 gactgctcga aagaacaatg actctggcac agccctgctt ttcaccagg aaagcagttt 120
 ttcacagaat ggctttgatt tatacttaat aaaaatggat cttaactgta gagccaccag 180
 ctttcttgaa ggcaatgaat acacttcagc atttatgcta agttctgttg aatttcttc 240

```

tgtggtcgca tatggattgt ttccaacat tggcacaaga caatcggtat agaagtaacc 300
aatcttagac atattcagtg tagaaataat cagatccatt gcaagctggc caacatttcc 360
aacagatact gctggcatta ggagggtgaa gccgggaagg tcggggggccg actccccgca 420
gggaacgaac atggtcgcag tgggggtggc agcagggact aaccgcggcc ccggcaagaa 480
cacctgcccg ggcgcgcgtc gaaaggg 507

```

```

<210> 53
<211> 515
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(515)
<223> n = A,T,C or G

```

```

<400> 53
ttagggcgaa ttggagctcn ccgcggtggc ggccgcccgg gcaggtcgca gccttgccgg 60
tgaagcgtcc aggaaagtta acatctaccc caggaaacca gatctccagt cagccacagg 120
gtgagacaaa ggaggtgtcg cagcagccac cagagaaaca cggaccaaga gagaagggtga 180
tgtgtgcccc tgagaagagg attattcagc ctgaattaga gcttgggaac gagactgggt 240
gtgctcatct tacttgtgag ggagacaaaa aggaagaggt ttcaggcagt aataaaagcg 300
gcaaggttca tgcctgcaca ttagccagat tggcaaactt ctgctttact ccccatcgg 360
aatccaaatc aaaatcccct cctcctgaaa ggaagaaccg aggtgagaga ggccaagct 420
cccctctac aaccacagct ccaatgcgtg tcaagtaaaa ggaaatcttt tcagctccgt 480
gggtccaccg agaaactgat tgtttccaaa gaatc 515

```

```

<210> 54
<211> 208
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(208)
<223> n = A,T,C or G

```

```

<400> 54
gggcgaattg gagtccccg cgggtggcggc cgagggtcaag cttttttttt tttttttttt 60
tttttttttt aagaaaactt gtttttatct ttaaatactt tgaaaagctc tttcagagca 120
atataaatga gtgcctggga ggaggaggtt ttgtgccaga gccttgccac ctgnccgggc 180
ggcngcttn ttanaacttg tgggntcc 208

```

```

<210> 55
<211> 227
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(227)
<223> n = A,T,C or G

```

```

<400> 55
gaattggagc tncgcgcggt ggcggccgag gtggctgctc gggttacgat cgtcagggtga 60
gggaggaagg gatagccagc gcgaaggaag tgctggagtc gtgtgttttg gctgcgcgtg 120
atcctgcgtg ggtcgggagg tgtttctgtg aaaagcctaa agattagact gtaagaaaag 180
aaaatagaag ccatgtttcg aagacctgta ttacaggtac ctgcccg 227

```

```

<210> 56
<211> 564

```

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(564)
 <223> n = A,T,C or G

<400> 56
 ttaggggcgaa ttggagctcc ccgcggnggc ggccgaggta cccacgtcct aggggaaggag 60
 aagatcgcca gcatgctgcc ggagcagctc tacttcctgc agagcccccg gaggaggagc 120
 ccgaatacca ccccgacgcc tcagcccaag aatcatttgc tgtttcaa at agagaactgt 180
 gcgatgatga gaaagagttc atacattttc cagtatgtga ggggacctct caacctgaac 240
 cctngtggtc agctgtcaga ataacagcca ataaaaacta caggagcaaa acctctcagg 300
 aaggtgcttt aaaaaagatg catgaggaag aacaccatca acaaatgtcc atcttacaac 360
 tgcaactgat acaaatgaat gaggtgcatg tggccaaaat ccagcagata gagcgagagt 420
 gtgagatggc anaggaggaa cacaggataa aaatggaagt tctcaataaa aagaagatgt 480
 attgggaaag aaaactacaa acttttacca aggaatggcc tgtttcctca ttttaaccggc 540
 cctttcccaa ttcgccctaa gact 564

<210> 57
 <211> 322
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(322)
 <223> n = A,T,C or G

<400> 57
 ttaggggcgaa ttggagctca ccgcggtggc ggccgcccgc gcaggtagca tgggcggcaa 60
 gcaagccata tccatagcct ccaaagccag agccatatcc gtagcctcca aagccagagc 120
 catatccgta gcttccaaag ccagagccat atccgtagcc tncatagcca cagccagaac 180
 cccgtctgca gaagctgcca catccacagc catagccata gcccaggcca ccgaagcctc 240
 cacagctgta gcccaggcct ccgtagtagc tgccgtagtg actcatggtg tcaggagtg 300
 tgaagtgggn tttgttacct cn 322

<210> 58
 <211> 266
 <212> DNA
 <213> Homo sapiens

<400> 58
 tagggcgaaat tggagctcac cgcggtggcg gccgaggtct acggaggcct gggctacaag 60
 ctgtggaggc ttcggtggcc tgggctatgg ctatggctgt ggatgtggca gcttctgcag 120
 acggggttct ggctgtggct atggaggcta cggatatggc tctggctttg gaagctacgg 180
 atatggctct ggctttggag gctacggata tggtctggc tttggaggct atggatatgg 240
 ctgctgccgc ccatcgtagc tgccc 266

<210> 59
 <211> 534
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(534)
 <223> n = A,T,C or G

<400> 59

```
tatagggcga attggagctc cccgcggtgg cggccgaggt acaagctttt tttttttttt 60
tttttttttc tttttttttt ttnatttttt tttttttttt tttttttttt tttttttttt 120
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt ttttaaannn 180
ngggnnaaaa annaaaaaaa aaagggnchna aaanncnngg nangggggnnn nccnccnaa 240
anccngggna aaaanngggg ggnanaaatt nnnnaaaaaa ancaaaaangg nccgggnnaan 300
aaaaaangcc cnnngaaant tttnanngga aaannncccc ccnttnaaaa nccnncncnn 360
angggggntt ttttngggng gntnnnaaaa gnnngggggg gataaaaaaa cnggccnttt 420
aanatnaaaa nttttttttt nggnccccct naaaaaaaa annnnnnccc ntccnanng 480
ntttnanccc ngggnnttgn nggggggnata cnaaatnggg naaacccccc cccc 534
```

<210> 60
 <211> 535
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(535)
 <223> n = A,T,C or G

```
<400> 60
ccgggcaggt actagtggat gggggtcagg gtgtcactcc aaggccctct acagaccag 60
agaagaggaa agtcaaaaaa gccagatatg agactgctga agtgggtgta agaaatatag 120
gcaaggtaaa ggggaacaaga ttctggggct cccttcctac ttgtgtccct cactggacct 180
canacaccn tacctctaan actggttntt aagaaggctg aacagtaang aagcattcca 240
atagctttnt gaaactccca aggctgtttt naagtagtnc gaaagccatc cctggnactg 300
ttcaggtgcc ttttctatit tcccaccctt agctctctgc ctttttcttt gaagcctcac 360
agggttttcc cagaaattta caagtaccct tcggctctgcc tnttangaaa nttaggntgg 420
gnatccccc cggggctgct agggaaattt ccganttatt tnaagccttt atctgaatna 480
cccgtttcga ccttcgaagn gggggggcnc ccggtaaccc caagcctttt ttgtt 535
```

<210> 61
 <211> 58
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(58)
 <223> n = A,T,C or G

```
<400> 61
tgctggcngt tttttccata aggtccgcc cccctgacga agcatcaca aaatcgac 58
```

<210> 62
 <211> 87
 <212> DNA
 <213> Homo sapiens

```
<400> 62
cttagggcga attggagctc cccgcggtgg cggcccagag tacgagtgga ggacagggac 60
agagccctct gtggtggaac gacccca 87
```

<210> 63
 <211> 134
 <212> DNA
 <213> Homo sapiens

```
<400> 63
cttagggcga attggagctc cccgcggtgg gggcccagag tactgataac ttcttgcttc 60
agttcatcta caatgatctt tccctctaaa tccagatct tgatgctggg gcctgtggca 120
```


gcacacagcc agta

134

<210> 64
 <211> 288
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(288)
 <223> n = A,T,C or G

<400> 64
 aattgnagct caccgcgggg gcggcgcgcc gggcaggtac gatgggcggc agcagccata 60
 tccatagcct ccaaagccag agccatatcc gtagcctcca aagccagagc catatccgta 120
 gcttccaaag ccagagccat atccgtagcc tccatagcca cagccagaac ccccgctctgc 180
 agaagctgcc acatccacag ccatagccat agcccaggcc acccgaagcc tncacaagct 240
 gtagcccagg ccttcgtaag accttcggcg cgctctaaga actagntg 288

<210> 65
 <211> 333
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(333)
 <223> n = A,T,C or G

<400> 65
 ccgggcaggt gtgtcggcgc cgccactgtc cgccacagc ctaacgctct ttgcttgctg 60
 tttggtgggc tttggggcca aggcgggnccc cgttttttgt gtttggcgtt ggaattaaac 120
 aaccaccatn tttagcaaaa agggcaaaanc ccaagaccac caannagcnc ccttaacggg 180
 nnaaaattca atttntttgc cattnttttt ancaanttaa aaganttnag ggagttnaaa 240
 gagggccttn aacnttgatt gntnagaaca gganattggc ttttaattcg caaagggaag 300
 natttgnaat gaatnttgct tnggcttttt ttt 333

<210> 66
 <211> 108
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(108)
 <223> n = A,T,C or G

<400> 66
 caaggactng ctagtgctgt ttggtggctg gacgcggtca agcccttatn cnctacacca 60
 nccagaggag antctttgat gaaaaacaca cttactcacc ctctaaaa 108

<210> 67
 <211> 260
 <212> DNA
 <213> Homo sapiens

<400> 67
 aggtacctga gaattccagt ggatgagggt cagcctcttg agctgtgaaa acctgggccc 60
 acagcggagg cagagctgca ctaatgttcc cacacgagtc cttcccaccc aacaccttg 120
 tgcagggaga cggaaggagc ctggagccag gggtaaggaa gagagggaac ccctcacga 180
 ttgggcataa gccactccag ggaagcaagg agcttcttct ccgccttgac cccgcccttg 240

gcaggccggc cacctgcccg

<210> 68
 <211> 455
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(455)
 <223> n = A,T,C or G

<400> 68
 cgaattggag ctccccggc tggcggccga ggtacagtaa tcctgcctga tagagtatgt 60
 ctggaatgag aattactttt tgggtgagag agttctccat tttaatgttt ctaaagtttt 120
 tcatatgaac ttggcattgg aaaagggagg taaagaaaaa ggacgtttac taaaagcagt 180
 gtctactctt cccctttgtg agtggttatt catggctaata gaaaaaaga gaaggactct 240
 tgggttttgt gttgccatgt taagcatgga gagggatgct tgacagcatg ctaattgaag 300
 ccagagcaag tatgtccttc atcaggtaat caggaactct tcagttgaag ctgaggaact 360
 aactgattag ttgttgatca taatataatt ggttacaaag tgggaaagtg ccagctggct 420
 ttaagtacct gcccgggcgg ncgctctaaa actag 455

<210> 69
 <211> 476
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(476)
 <223> n = A,T,C or G

<400> 69
 gctccccggc tggcggccgc ccgggcaggt acagaagaaa acaggttctg gaatctccac 60
 tccagccaat aaaagtctct ctgcttcatt gttttgtctg tgcttctttt ctccctcccg 120
 ttcggtctta cgagctgcag ctaatgcact ggacttggat gagacaatgg tgtctccagt 180
 ggcagtatgt ttaagcccaa cagtcaaagc aatgttacca gcagtcaatg aagggatttc 240
 tacatgttgg tcaagcaaaa cgggnaaaag canacgactt attctttccg ggagttcca 300
 ttntaatta tgaatggcca actgggggtt tttatagtgc ctgagttaaa ngccgcataa 360
 aaaccaagtg ggtcctcgct tgctttgtca tgggaagaaa ctttaaattg caatgcacat 420
 aaagtcatcc ttataccact gcagaaattc aacctcggcc gctctagaac taggtg 476

<210> 70
 <211> 446
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(446)
 <223> n = A,T,C or G

<400> 70
 gctccccggc gtggcggccg agtagcngcc agnaaggaga gactgggatg gttttttatc 60
 tggttgcttc ttaaatacaag ggccgcccgg ccggagatgg atggaggagc cggggatttg 120
 ggaactcgaa aacgagctga gggaaggag cctgtggaaa tagactggag tctgggtagt 180
 gtcgtttcct agagaatggt ctggaagtaa cttctcggtg aagtcttcac ggaatttcca 240
 gaccacactt tgcccnctg ggaggtttt tangaccccg agacgtgtgc aggtttttt 300
 caggccaaat gaaagttaa tcccttttgt gacttcccga cccgaagcaa ggaatcgcaa 360
 aaggcatttc aatgcacctt cccacattcg aaggaagatt atgtcttccc ctctttccaa 420
 agagctgaga caggaagtnc ctcggc 446

<210> 71
 <211> 348
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(348)
 <223> n = A,T,C or G

<400> 71
 gctccaccgc ggtggcgcc gcccgggcag gacagtgcct gctggcagtt aagatgtcag 60
 gacagtctaa gctgagaacc ctttctctgc ccaccttaac agacctctag ggttcttaac 120
 ccagcaatca agtttgctta tctagaggt ggcggatttg atcatttggt gtgttgggca 180
 atttttgttt tactgtctgg ttccttctgc gtgaattacc accaccacca cttgtgcac 240
 tcagtcttg gngntggctn ggtancgtat tccctggggn gataccatt caatggtctt 300
 aatgnaccct nggncgntc tagaactagg tggatcccc gggtgga 348

<210> 72
 <211> 588
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(588)
 <223> n = A,T,C or G

<400> 72
 gctccaccgc ggtggcgcc gaggtacttg tcatataaaa tcatggcatc attctgtgcc 60
 tctgtccat catattggcc ctttttgga gcaagctgag actggaagtt atctgtgcc 120
 aaccagaatt gtaagatatt cactgcatcc tctttttcca tgtacaatta ccaccactg 180
 gatttgactc agagaggacc ccagaggggt gtctccatct tccctattta ttttcagccc 240
 ttgagggctt cattgnnaaa naaaaggcca aaggcccca gggaagggtg acatactcct 300
 ggaagnttca cctcctggtc cttgttnccg tccaagtctt ccatcaagcc ttgcaatttc 360
 aagcatnctg caagcttcga gccaaatggg gaagctnctt ctgggatcag ctcccttcag 420
 gctccttctt gctcaagggt gttgcttgct acccttccct cggagggtnc cttgccccgg 480
 ggccgggccc cttctaagaa actagtggga ntcccccg gccttgagg gaattttgat 540
 nnttnaagct ttatttgaat acccgntcgn cctcgaagg gggggggg 588

<210> 73
 <211> 182
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(182)
 <223> n = A,T,C or G

<400> 73
 cgaattggag ctccccgcgg tggcgccga ggtacaagct tntttttttt tttttttttt 60
 ttttttaatt tntttttttt ttttttnggt ttttttcctt tttataagat ttttttcttt 120
 gnttttgntt aatatgaaaa ttacttgaaa agacaagggc caaccncc aggcagctcg 180
 gc 182

<210> 74
 <211> 415
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(415)
 <223> n = A,T,C or G

<400> 74
 cnccgcgggtg gcgggccgccc ggcagggtgga gaatggccca gtcctctccc aattccacac 60
 agggggaggtg ataggcattg ctttcgtgta aattatgtaa tgcaaaattt ttttaacttt 120
 cgccttaata cttttttatt ttgttttatt ttgaatgatg agccttcgtg cccccccttc 180
 cccctttttt gtccccaac ttgagatgta tgaaggcttt tggctccctt gggagtgggt 240
 ggaggcagnc nggggcttaa cctgtaccct ngggccggtc tagaactagn gggatcccc 300
 gggctgnagg aatttcgata ttcaagctta ttcgataccg nccgaacctc gagggggggg 360
 gcccggttac ccagcttttg gttcccttta gtganggggt taattgocgc cttgn 415

<210> 75
 <211> 580
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(580)
 <223> n = A,T,C or G

<400> 75
 caattggagc tccccgcggt ggcggccgcc cgggcaggta cttgtttgca agcaggactt 60
 tgaggcaagt gtgggccact gtggtggcag tggaggtggg gtgtttggga ggctgcgtgc 120
 cagtcaagaa gaaaaaggtt tgcattctca cattgccagg atgataagtt cctttccttt 180
 tctttaaaga agttgaagtt taggaatcct ttggtgccaa ctggtgtttg aaagtaggga 240
 cctcanaggt ttacctagag aaccaggngg ttttnaggg ttatntttan atgtttcaca 300
 ccggaangg ttttaaanca ctaaaaatat ataaatttat aggttaaagg gctaaaaaag 360
 tattatttta ttgcaaaagg gatgttcata aggccagta tgatttnata aatgcaatct 420
 ccccttgatt taaacacaca gatacacaca cacacacaca cacacacaaa ccttctgcct 480
 tttgatgttt acaggattta atacagtttt attttttaaa gataagatcc tttttatagg 540
 tggaagaaaa aaaaaccaat tcttgggaaa gaaaaaaaaa 580

<210> 76
 <211> 346
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(346)
 <223> n = A,T,C or G

<400> 76
 aggtacatga tgatacttgc tttccagaag ctggcatttg catattataa aacgttaaga 60
 agaaggctga cctcggaatg taacagacaa tagttttatg tttcttctca atatacagtg 120
 acctggaagg actccctgtt gttaaaacct gcttccccac tgctcagcct gccatcagcc 180
 atccagctgc agagcagtg agagtaggtc tcaccagttt ttgngcaaga tgcttttaaa 240
 cccaaagtcc ttntgcttac ttnattggga caatattgnc cttttctaag aaaacccttt 300
 ttaagatcct gtacctgccc gggcgggccc cttctaagaa ctagtg 346

<210> 77
 <211> 217
 <212> DNA
 <213> Homo sapiens

<400> 77

```

ccccgcggtg gcggcggggg gtcccgcccc gaaaaggggc tacagctctg agatgaagac 60
ggaggacgag ctgcgggtgc ggcacctgga ggaggagaac cgaggaattg tggtgcttgg 120
aataaacaga gcttatggca aaaattcact cagtaaaaat cttataaaaa tgctatcaaa 180
agctgtggat gctttgaaat ctgataagaa agtacct 217

```

<210> 78

<211> 499

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(499)

<223> n = A,T,C or G

<400> 78

```

aggtacatcc atcggcctgt aagggtctgt attatggctg tgaatatatg ttttcaggac 60
agccccctgg atgagagata agagagttcc tggetcaaaa aaggacaaga ttctttactg 120
agattgggaa gtatgggcta cttagaaacg ttggagcagc caccctggc attccacatg 180
tcaccatttc taggatcttg gcctctctgt gaggtttatg caccaatgct ggcagccctg 240
ggcagggggc tcggcctcct ttttgtttcc cacttcagac aggtacctgc ccggggcgcc 300
gcccgggcag gtacaagctt tttttttttt tttttttttt tttttttttt tttttttttt 360
tttttttttt ttttttttaa nagtntgatc ttattntttt gtttctnaaa aaattttntt 420
tttgactgga ttcaaaactta aaagtnaaac ctncanagn ggaaagtttg cncntnggcc 480
gttttaaaac taggggatc 499

```

<210> 79

<211> 517

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(517)

<223> n = A,T,C or G

<400> 79

```

aggtacaagc tttttttttt tttttttttt ttggcaggct ctcaggaatc ctttattctt 60
gtagtaataa taataactaac aaacagttgg ggaactaggg agaaaaccac gaccattaaa 120
actgtttgtg ggnnnaantt accctnnang cntccantt tttctgntga cttggacaat 180
gtgggagggt gaagncgggt gagagaacat ggaaggcccg cccttctcag gggaagagggt 240
ggtanntgac caannacagg cngnggaaaa agcaaaactc tatgtnggtg cccttttgta 300
tcttgggaca ctgaggcatc cnttcatacn ctnattcacc catctcccc tggcactccc 360
ccagaaaaac ctggaaattg acacatgtgg ctaactaagg acttttattt cnaaacaaga 420
anattaaaaa ataaaaaaat tgganagctc tttttccctg ggtttgggga agggagtcag 480
nggnagggga aattcccaca tggctaggcc agtacct 517

```

<210> 80

<211> 639

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(639)

<223> n = A,T,C or G

<400> 80

```

gagctncacc gcggtggcgg ccgcccgggc aggtaccatt tccagataag aaatcagctt 60
ggggctgngg ctcggggagg cacacactga aaaacacaag cctaccttgg cgatgagatg 120
aagaaacata ctacaggaaa cgttaacgta gagagaagag cacagggcag aacacaacac 180

```

```

agaaaggcgg gtcccatcca gtgaggaagc tttttatccc tggcaaccct tcccacaatc 240
aggggtctcc agtccgatgg cccattgggc ataaggcttt gccttgggga aacaggagcc 300
caccctcttc tgccccact tctggctgcc tcactcccct gctcaaaagn ctttgatttt 360
tggaatntct gtgggggctt gcgtggtcac agnaggggcc ctgagggacc ttgnaagagt 420
gcctttcagg gatggtgtca agggtccacn ttcggcaggg ggggttggga gggagggagg 480
cagnagtcca ccctgcgagg cagctcgctc tcctttttca ttggatgggc ctgtcactca 540
gccgcagcag ggatgggctg gtcttgaggt gataacattc ccattcatgt gaaggttgca 600
cttcacgggc tgcccgcca gacaccggtt gttgtacct 639

```

```

<210> 81
<211> 632
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(632)
<223> n = A,T,C or G

```

```

<400> 81
ecgggcagggt actcgtcaat gggctcggtc atatatacca cctggaagcc ccgtntccgc 60
actcgtccca caaaagctga gttggccacc tgctctttgc tctcaccagt gatgtaatac 120
aatggacttg ctgtgtctcc ttcattgcgag aaacatactc tgacagagat gtcatctcat 180
ctccagcact gggaggtatg atagcgcagc agctcagaca ggccggcagg ccggttagnt 240
ggcagtcctc ngtggcattc caagctntga ggatttttag gaggaatgcc ttcattaggaa 300
tttntctgta attactcctt gtantttctgc caagctcagg agaagtagnc tcaaggcact 360
ttcttnaaca atgctttttg cgcaatgnac tttttcanag gatttttgct ccngcctggg 420
agccattttc ttcgggnagn atgttttcagg gcgcangatc ctcaggagtc aaccaccacc 480
acggnataaa aattggagna tacctctggt aatcaactca tcacagctgt ccattggatgg 540
aacaccaccg gcggacatag angttcngat ggtgggtctt ttacttcttg ttntcaaaa 600
aggncaaaagg ggagccccga cgagggaata aa 632

```

```

<210> 82
<211> 441
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(441)
<223> n = A,T,C or G

```

```

<400> 82
aggtacaagt tccactctgc tacagatgcg tctgtgaaga gcctngngcc atccaactag 60
tgactgaatg atgtcccatc tcttatccga gccagagcac acatcttcca tgctgtccgc 120
tgattgcctc caaatccaga agaccaata atcctttatc cccaaagtag gctcaaaaca 180
gttggttcag gcattccggg gatctgcacc cctcttaaata cccaggtaaa tcacaagcag 240
gggataaagc cccagcgaat ggcaaaactg gctccccttg taaggagctg ctgttagtcc 300
tctgcttggc cctctttgcn tcagcttcac catggnccga cggggccgct ctagnaacta 360
gtggtatccc ccgggcctgc aggcaattcg atatcaaggc ttatcggata cncgtcgnac 420
ctcgaggggg ggccccggt c 441

```

```

<210> 83
<211> 482
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(482)
<223> n = A,T,C or G

```

```

<400> 83
gnggtggcgg cgcgaaagaa aaatgacaaa gaggcagcag gagagggccc agccctgtgt 60
gaggaccccc cagatcagaa aacctcacc agnggcaaac ctgccacact caagatctgc 120
tcttggaaatg tggatgggct tcgagcctgg attaagaaga aaggattaga ttgggtaaag 180
gaagaagccc cagatatact gtgccttcaa gaggacaaa tgttcagaga acaaactacc 240
agctgaactt caggagcgtg cctggactct ctcatacaatt actgggtcag ctcccttcgg 300
acaaggaag ggtacnctcg gccgctctta gaaacntagn tggatnnccc ccgggctgcc 360
agggaattcg atatcaaagn cttatccgat accgtccgac ctcggagggg ggggccccgg 420
ntaccagct ttttgnctcc tttagtggag gttaattgc gccgccttg gcgtaaatca 480
tg

```

```

<210> 84
<211> 205
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(205)
<223> n = A,T,C or G

```

```

<400> 84
ccgggcaggt actacatttt ataacaatag agagtagctg aaaatactac atgctaacac 60
agataatatg atacacaacc tcagggggga agctggcagg gagcacgtgg cagaggccac 120
aggtttagac taagagnntt tcaatgggac ttgctgaatg gattggatct gctgtttcag 180
ctgcgagcct tctttgatgg acctc
205

```

```

<210> 85
<211> 380
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(380)
<223> n = A,T,C or G

```

```

<400> 85
gnggggacct gatgctgcac atccacagcg acgtgggctc tgagccccgt gccatctttt 60
attccgcctg cgtgggtgctg ggctacagt ttcttcacga acacaagatc gtctacagg 120
acctgaagt ggacaatttg ctctggaca ccgagggcta cgtcaagatc gcagactttg 180
gcctctgcaa ggcaggggat gggctatgg gactcggacc agncacatc tgtgggaccc 240
cgggagttcc tggccccctga ggttgcttgt acggtacacc gtcgttacct cggnccgctc 300
tagaaactag ttggatcccc cgggctgcaa ggaatttcg attatcaagn cttattcgat 360
naccgttcc gacctcgagg
380

```

```

<210> 86
<211> 687
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(687)
<223> n = A,T,C or G

```

```

<400> 86
ccgggcaggt acaggagatc tcatttggga caactaaggn taangggctg gtcacgagc 60
agtgtaaagaa ctccagagct gtaaccattt ttattagagg aggaaataag atgacattg 120
aggaggcgaa acgatccctt cacgatgctt tgtgtgtcat ccggaacctc atccgcgata 180

```

```

atcgtgtggt gtatggcagg aggggctgct gagtatatcc tgtgccctgg cagcttagcn 240
caagtagggn gtgataagt cccacacctta ggaacagtat tgcccattgt agcagcagtt 300
tgnacgaccg cacgtgngta gggtcatacc ccatggcccc tnnctggaaa aacagtggcg 360
atgnaatccc atcccagtac tatgacccgg aagtcccgag tccagacagn gtgnaaggga 420
ggatggaacc cctgctcttg ggcattcgac tgttttgac aaggggtgac caaaatgtat 480
atgtaaagca acnagccatg tcatagnaaa ccttgattgg gnaaaaaagc aacaggatat 540
ctcttgcaac acaaatgggt ttaggaatga ttttggaaag attgatgaca ttcgtaagcc 600
ctgggangaa attctggaag aatgaaggac catttganga aaaactatnt tagccaagna 660
tcccaccttc ttggtggatt ttaaagt 687

```

<210> 87

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(433)

<223> n = A,T,C or G

<400> 87

```

aggtcagcca tgagtatgct caggcttcag aagaggctcg cctctagtgt cctccgctgt 60
ggcaagaaga aggtctggtt agaccccaat gagaccaatg aaatcgccaa tgccaactcc 120
cgtcagcaga tccggaagct tcatcaaaga tgggctgac atnccgcaag cctgtagacg 180
gtccattccc gggctcgatg ccgggaaaaa caccctggcc cgccggnaag ggcaggccac 240
atgggcatan ggtaagtccg aagggtacnc tgcccgggcg gcncgntcta gtaactagt 300
ngatcccccg ggctgcatgg naattcnata ttcaaagctt tattngatac ccgtcggacc 360
ctcgaggggg ggggcccccg gtaccagct ttttgttccc tnttaagtga ggggttaat 420
ttgcgccgct tng 433

```

<210> 88

<211> 679

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(679)

<223> n = A,T,C or G

<400> 88

```

aggtagccac cgccatctac tgcttcctac gctgcntggn gccagacct gagatccctt 60
ctgccttcaa tagcctccaa aggactctca tttattccat ctcaacttgg ggggacacag 120
acaccattgc caccatggct ggggccattg ctggtgccta ctatgggatg gatcagggtg 180
cagagagctg gcagcaaagc tgtgaaggct acgaggagga cagacatcct ggcccaaagc 240
ctgcaccgtg tcttccagaa agtagttgat gaggggctac agctgttggg gggctctngc 300
ccaggtcccc tggngacnca acttacagct tccaatcant aaacctgcc gccttccttt 360
gagtgttggc tatcccactt ttttccttgc attgtggnag cctgactgag tacctgcccg 420
ggcggccgct ctangaactt agntggatcc ccgggggcct gcaggaaatt tcgatatcaa 480
agctttatcg gataccgncn gacctccgag gggggggggc ccggttacct agnctttttg 540
ttccctttan tngagggtta antttgcgen gcttgggctt aaantcaatg gtcaataagc 600
tgttttttcc ttgtgntgg aaaattgtta atcccgcttc accaatttcc caccaccana 660
cataacngaa gccnnggg 679

```

<210> 89

<211> 360

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(360)

<223> n = A,T,C or G

<400> 89

```

ccgggcaggt cgcaatggtg gatgtgatct ttgctgatgg ggcccagcca gaccagaccc 60
ggattgtggc cctgaatgcc cacaccttcc tgcgtaatgg aggacacttt gtgatttcca 120
ttaaggccaa ctgcattgac tccacagcct cagccgaggg cgtgtttgcc tccgaagtga 180
aaaagatgca acaggagaac atgaagccgc aggagcagtt gacccttgag ccatatgaaa 240
gtagaccatg cccgtggtcg tgggagtgtg ccctcgggcg ctcttaggaa ctagtgggat 300
cccccgggct gcagggaatt cgatatcaag ccttatcgga taccctgncg acctcgagg 360

```

<210> 90

<211> 402

<212> DNA

<213> Homo sapiens

<400> 90

```

aggtagagta atcctgcctg atagagtagt ctggaatgag aattactttt tgggtgagag 60
agttctccat tttaatgttt ctaaagtgtt tcatatgaac ttggcattgg aaaagggagg 120
taaagaaaaa ggacgtttac taaaagcagt gtctactctt cccctttgtg agtgtttatt 180
catggctaata gaaaaaaaga gaaggactct tgggttttgt gttgccatgt taagcatgga 240
gagggatgct tgacagcatg ctaattgaag ccagagcaag tatgtccttc atcaggtaat 300
caggaactct tcagttgaag ctgaggaact aactgattag ttgttgatca taatataatt 360
ggttacaaaag tggaagtgcc agctggctta agtacctgcc cg 402

```

<210> 91

<211> 466

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(466)

<223> n = A,T,C or G

<400> 91

```

ccgggcaggt gaagggtgggt ctgaatctag caccatgacg gaactagaga cagccatggg 60
catgatcata gacgtctttt cccgatattc ggcagcagag ggcagcacgc agaccctgac 120
caagggggag ctcaagggtt ctnatgngag aaaggagcta ccantgcttc ctgcagagt 180
gaaaagacaa ggatngccgt ggataaattg ctcaaggacc ttggaccgcc aatggagatg 240
cccagcgttg gactttcagt tgagttcatt cgtgtttcgt ggtctgcaat cacnntctgc 300
ctgtcacaag taccttcggc ncgctctagt aacctagttg gatccccogn ggcttcagg 360
naatttcnnn tattcaagct tattcgatac tcgtctntan ccttcggagg gggggggccn 420
gttaccant nttttgnttt cccttttaag tggaggggtt aaattt 466

```

<210> 92

<211> 474

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(474)

<223> n = A,T,C or G

<400> 92

```

aggtagcttc agagaaaacc aaacagccta aagaatgttt tttgatacaa ccaaaggaaa 60
gaaaagagaa taccaccaag accaggaaaa gaagaaagaa gaaaattact gatgttcttg 120
caaaanccga accaaancca ggggttacct gaatgacct catganagct gatggaagga 180
ctattatagc agcagacgct tggttgattg aattagaaga actgaacctg ccaggactcc 240

```

```
tgtgttcctc aaggccaatg antttgactc acagntcntt tgcctcatac cntaaaaagg 300
aaattttgtc ctaagtnggg ntaaaaaact ttagggaaga aaccacagtt gaggaagaaa 360
atcnggtcct ggatgnctga tcatctgcca gncttcgggc cgctctagga actagtggga 420
tcccccccg gctgcaaggg aaatttcgaa tantcaagct ttattcggat tccg 474
```

```
<210> 93
<211> 436
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(436)
<223> n = A,T,C or G
```

```
<400> 93
gcctcggtaa taactttctg tcacggacct gaatcggtct tgcctgctg tatcccatat 60
ttgtaacttt acatattttac caccaacatt tattatnttt gaaccaaatt ccactcctat 120
tgtatgattt gagtcatntt tctganattt tttatntcaa ataancctgn atgaaagtta 180
angcanagat tttgccagtt ccttgcattt ccaataacca agtaaccnta aacaagaaaa 240
tcnttaggta tttcgggaca ttggcccgtc tgcgacatac ttggggaggc ggacncttgc 300
gcccgnatct aggaactagt tgggatcccc cgnggcctgc caggtaattc gantatcaag 360
ccttatcgga tacnctcgga tacnctctga gggggggggc ccccggtacn ccaggctttt 420
ggttcccttt tagtgg 436
```

```
<210> 94
<211> 513
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(513)
<223> n = A,T,C or G
```

```
<400> 94
gctccaccgc ggtggcggcc cgagggtacaa gctatntttt tttttttttt ttttttatgc 60
cttntcttnt actttattnc atattccac cacggataac gactncttta atttaaacta 120
aaaaccatac agggcttcct gaaaggggtg cataaagaga aagggaang atcanacnt 180
gcnaggacan gttgggggag tggaataagn gnaatcgcnt tgacttgggc tnttggagat 240
tgcttgggcn ggcttgggaag cttgcagcnt ggtanggccca ttcgggattg gnaacttggg 300
aaaccctgta gaagccctgg gccacaaaaa cnttggnttt ggcaanngnt natttttngg 360
ggcnccgggt accctttccc ggggncgggg nccgntttt tangaaacnt aaggntggga 420
atcccccccc cggggccttg ncaagggaag ntccggant aatccaaagg cctttaattc 480
gnaatncccc gntgccgaac ccttcagaag ggg 513
```

```
<210> 95
<211> 516
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(516)
<223> n = A,T,C or G
```

```
<400> 95
ttagggcgaa ttggagctcc ccgcggtggc ggccgcccgc gcagggtacaa gctntntttt 60
tttttttnt tttttnttn tttttnaang aataggntag tttatnttga gagagaggaa 120
gacatnattt gggttctgta aacatnagtc actttattat gcctctgnt ggctgaaaaa 180
caccagctnc tnntgacttn caagggccgc ntgcagagag tgctgcctgc cagggtgtgag 240
```

```

gtttccagnt aaaagtttna gcagggacac catttgctgg atgtgtttta gaataaaatt 300
gcttcntaaa atgngataaa taggttacta tacacctttg gtcaatatag ntaaagcacc 360
agcaattaaa atacaccggt cccggccggg gtgaaagtgg nttacgcacc ttnggcccgt 420
ntaaaaacta gggggatncc ccccgggctt ggngggaatt tccgaatatt caaagcctta 480
ttcnaatacc ccgctccnacc cttnnagggg gggggg 516

```

```

<210> 96
<211> 627
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(627)
<223> n = A,T,C or G

```

```

<400> 96
nccgggcagg tacagaatat tccaacatgt ctcatatgca aacaaagcat gtctgtgtcc 60
aaagaatata acctaagacg ccactatcaa accaatcaca gcaagcatta tgaccagtat 120
acggaaanga atgctgtacg agaancctca cgagcngaaa aaagggcttc aggaagtntc 180
tnttaggctn gtcagacacc cgagtgtccc gagcaaaaac aagtgtttgc aaacccaagt 240
ccaaccaga aattcccccg tgcangtctg ntagaggacc tagctggnga acttatggga 300
agaagttacc nttgaaaaaa tcaggtcctt ttgttgcaa tattcttatt cgccaantng 360
attggagaat caggggatat taaaataaat accnccccc annttgggcc atatttcac 420
ccgtggntgt cggatgaana aatTTTTnga tnttgggtcc naaaagaact tttttgggac 480
aacggttggc cccatngacg gggttacctt tnggccgna ttaagaacc taagatggga 540
atnccccccc ggnctnnan ggaaatttct gaatattcaa atnttnttc gaataaccgc 600
gtcngaccct tcnaagggg ggggcc 627

```

```

<210> 97
<211> 581
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(581)
<223> n = A,T,C or G

```

```

<400> 97
aggtacattc cttaagcccc agcctctcaa actacagtca accgccccgg tcaccagcaa 60
attctcattg tatttacacc agtcacaact naagatttnt gcctgatgtg caggaatcac 120
tgattcttac tcctgctgcc ttcacaatcc cactattttc tcanagtact tgaatcacct 180
tgaggccttg aagcaanaac aacacagggg atgtgtgtcg agactcagat tgtgcctata 240
aataatactt tnatggctc taaaggttgc acagtagnac tttccaacag gtaggnatcc 300
caccaatntt ngacaagggt tagatcccat gnagccaagn acacncacaa gctgggtcac 360
ctntgggttt ggcttccaat ccaacactaa tacacnntc tgnaggcgtt gtttttttat 420
aagaacttgg caagttgagc ccctgcnanc tttttgggca gtngtctccn ngaancctgn 480
caagcctagg ccattngct cactttanca ggggtgatgg agggaccatt gtcccntatg 540
gtttntcac ttccaanntt caccattcaa aaacaaaacc c 581

```

```

<210> 98
<211> 459
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(459)
<223> n = A,T,C or G

```

```

<400> 98
cgaggctactc gagaacgcgg ccgctatcgg gaagaagaaa tgactgtggt ggaggaagcg 60
gatgatgaca aaaaaaggct gctgcagatt attgacagag atggggaaga ggaagaggaa 120
gaggaggagc cattggatga aagcttcagt gaagaaaatg atcctcacat ttgaaaagga 180
gatcatataa aaaccaagaa ttgctggatt aagttttcaa gacaatccag agaagtcat 240
ggaatccgag ctggacctaa atgacctca ttcaggagat gcnacgttgg tggccacca 300
ttgccagacc tgtaccctgc ccgggncggc cgctcttaga acctagtggg atcccccg 360
gcttgcaagg gaatttcgga tatcaagcct tatcgatacn cgtcgacctc gagggggggg 420
ccccggtacc caagcttttt gttccctttt agtggaggg 459

```

```

<210> 99
<211> 593
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(593)
<223> n = A,T,C or G

```

```

<400> 99
aggtctgctc cggtcagct ttccaatcag ctgcggaagg agccacgctt tcgggggttg 60
caagatggcg gccaccagt gaactgatga gccggtttcc ggggagttgg tgtctgtggc 120
acatgcgctt tctctccag canaagtcnt attggcaacg natcctgaca tttgatgg 180
cttgggcat gagagcaatg cagcatgctt gaagtctatt acaagcttga tttcatcagt 240
ttgaccaca agtatacctga aaactcacca aagtagattg accaaaattt acttctgaag 300
ttccgggaaa aattttgnag acnccttagc gatagaatgt gtttggacct annaanaaac 360
tcaagntcag gaaatcagct caaagaagaa agtgggaggg ccattcttgc ttggaaagtt 420
ttaatgggga attgntttga angaactttc aacctaatgg gtncncttgc nccgggnc 480
ggcccgntct tagaactaag ntggaatccc cccggggctg ncagggaatt tcggatanca 540
agctttatcg attaccgtcc accttggang ggnngggccc ggtacccaa ctt 593

```

```

<210> 100
<211> 341
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(341)
<223> n = A,T,C or G

```

```

<400> 100
aggtacaggt tctctgttct tcagggtcat ttccacagct ttaagatgtg tattcatgct 60
gacatccaca cctgtgattg ttccatggac ctgtgttccg ttcttcaatt caatgggttac 120
agtttttcat gactcaattt tcatcaaaaa aatctnacgg agcttcattc tagcggcgc 180
cgtcaccctt tgggtcccga cagcacacaa gaatccttna accgaacact gaccgactgc 240
agtatgaatg gccggaagcg ccacctgccc ggnccggcgc tctagaacta gatgggatcc 300
cccggtctgc aggaaattcg atatcaaggc ttatcgata c 341

```

```

<210> 101
<211> 580
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(580)
<223> n = A,T,C or G

```

```

<400> 101

```

```

tagggcggaat tggagctccc cgcgggtggcg gccgaggtag tttgtgagac cagatctcca 60
tttttttcca atgggaaatt attgcaagtt cctacatctt gatattgctt tcataattta 120
tactaacata aaataaatatt ttccactgtt ttgcaatgtc tttttaattt ctgtattgca 180
gctagagggga agtccaaaga aaacttggat ttgctctttc tgacatctcg gtgggttagca 240
attattcctc tgagtgggag ctggaccctg taaaggatgt tctaattctt tctgctctga 300
gacgaatgct atgggctgca gatgacttct tagaggattt gccttttgag caaataggta 360
gatggttttg tggtgtggga agcttggaag cggtcaggta gttggctact ttctgcttgg 420
atctattaaa tacctggcag ctctctgtct tttgtgggtt gttgccctgt gaatagttct 480
gctttttaac ccactccctg gatgcatttt tnccttcttg catttcctc ttttcctgga 540
agttcatact aanagaatct gcactaatgg ttttccctt 580

```

```

<210> 102
<211> 419
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(419)
<223> n = A,T,C or G

```

```

<400> 102
aggtacaaga tccactctgc tacagatgcg tctgtgaaga gccttgtgcc atccaactag 60
tgactgaatg atgtcccatc tcttatccga gccagagcac acatnttcca tgctgtccgc 120
tgattgcctc caaatccaan aatgaccnta ntaatctntt tatccccaaa gtaggctcca 180
anaacagtat ggttcaggca ttcacgggna tctgcacccc tcttaaatnc caggttaaat 240
tcacaagagg gtataaagcc ccagnengaa tggcaaactg gctccccttg gaagagcntg 300
ctggttagttc tcntgcttgg cctcttttng cttcagcttc accattggcn tactggccgc 360
ntnttagtaa ctagtgggat cccccgggc ttgcagggaa tttonattat caangcttt 419

```

```

<210> 103
<211> 145
<212> DNA
<213> Homo sapiens

```

```

<400> 103
tatagggcga attggagctc cccgcgggtg cggccgaggc caggagtcta aactcacagg 60
catcaagcga atgctatgca cccagagagg ctactttaac aaaatTTTTG taaatatTTT 120
ccgatgtaaa ataaaatgtg ttccc 145

```

```

<210> 104
<211> 414
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(414)
<223> n = A,T,C or G

```

```

<400> 104
ggcgaattgg agctccccgc ggtggcggcc gcccgggcag gtacctttat tctgtcagtg 60
agcagggtatt tttttatgac cttttcctgc aattggcgaa aagtctcctt tcaattctac 120
tccatagagt tgactgctg aactggaaag ataaccctaa agttgctgtc tgggtgtgagc 180
tgcacatcat acagtaagtt tctgctcatt tttctttctc atataatgaa tcaataagtn 240
ttcatcataa anggaatgca ccaagggtgaa ctgtgggttc cggctgctgn tgcattggtta 300
gttcgcatcc actgtaacag cgcctggcgg toggcaggag ccacagtgcg aagcggccgc 360
agcatcactg cctgcctcgc agtgggaaat tttaacctgc tggagcaagc acct 414

```

```

<210> 105
<211> 530

```

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(530)
 <223> n = A,T,C or G

<400> 105
 cttaggcgga attggagctc cccgcgggtgg cgcccgaggt acaagctttt tttttttttt 60
 tttttttttt ttttnggttt tttttttttt tttttttttt ttanaaggc tgtaaagctt 120
 tattgggaga attttaatga acaaatttcc aacataggag cagcctgcat catttcaacg 180
 ngccttnttt taacactggg attgcttttc acctntttca ggngttttca cctncttttg 240
 atttgngggg tccatntnct gcccatnagg accatttttna cactnacncc cagtntgggg 300
 gngaccctgt tccctggctat cancttcagg ctctggccct tgacctgcan atgcnccctn 360
 atcctntccc tncctngcag ctncaggatc ctnacgttga gttgctgggt ncccttnttc 420
 agggngtngg ntgggtccac tttnatnactt gaactgctnn ggctngggaa aaacntnngg 480
 ggtggncaaa naanaaanna antttttggt tttgnnnnna aatttttntt 530

<210> 106
 <211> 507
 <212> DNA
 <213> Homo sapiens

<400> 106
 cttaggcgga attggagctc cccgcgggtgg cgcccgaggt gtggaactga ggatgcagca 60
 ttcaagggtc tatcttggaa gcagagactg tgccctcacc agatgctgaa cctgctgagc 120
 accctgatct tccacttcac ctccatcaga actactgggg ctgtggctga gatgtcacat 180
 ggcagatagg atcaciaaatt tctgttgtat ctggatggag atcagcagga ggatctatgg 240
 gtgagaagaa gcacagttac agatggattc tagagcctgc ttgctgacac aggcttgcaa 300
 ctgcggaact tataagctta gtttttaatc tgctatcagc tagcataata ccataaatgc 360
 ataaaaaact aagtattcag tcttacgaga aatgctatct tgacctgacc ctttctccaa 420
 ataaattgac aaaatatctc atcgtctagg atgccagaca gaaataccaa gttgcaatgt 480
 tttttgttgc ataaagtatt atcctaa 507

<210> 107
 <211> 293
 <212> DNA
 <213> Homo sapiens

<400> 107
 ccgcgggtggc ggcccgaggt ctctgaactt tcaaggaggc cagagcagga aagggaagg 60
 aataaccccc accacccccca acacaagaga ggcacaaatt agagggtctg gcacaggctg 120
 tagccctggg tgagggggta agcagcttga cagttgctct gtggtctctg ggatataatt 180
 ctgcccagg ctagaaccac agagaagagt ttgcactctt aagtccagga aggggactac 240
 ctggaaggcc tgagaacaaa ggagaaagt ttgcacacta aacacatggc cag 293

<210> 108
 <211> 392
 <212> DNA
 <213> Homo sapiens

<400> 108
 tagctccacc gcgggtggcgg cccgaggtgt ggaactgagg atgcagcatt caaggttcta 60
 tcttggaaag agagactgtg ccctcaccag atgctgaacc tgctgagcac cctgatcttc 120
 cacttcacct tcatcagaac tactggggct gtggctgaga tgctacatgg cagataggat 180
 cacaatttct tgttgtatct ggatggagat cagcaggagg atctatgggt gagaagaagc 240
 acagttacag atggattcta gagcctgctt gctgacacag gcttgcaact gcggacttta 300
 taagcttagt ttttaactct ctatcagcta gcataatacc ataaatgcat aaaaaactaa 360
 gtattcagtc ttacgagaaa tgctatcttg ac 392

<210> 109
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 109
 ttagggcgaa ttggagctcc ccgcggtggc ggccgaggtg ctgatcacta catcatggcc 60
 cgggtccttt ttgtgctgat tgtgctgagc cagctcacca ttctcattat ttttagatat 120
 cgaggataacc cagagcttaa agaacccttca gggtttataa atctgacctc attttctctt 180
 catgtcttga gcaaaataaa catcttctac tattctgtgt tgttgttgac cctgtataca 240
 gtgctgggtc catgggtttt tgggtgaaatc attgatggca aatttggttg ctgcttttcc 300
 tttgggatat ttgttaatgg acatttctta caaggcagca taacatttat aattggaatt 360
 ctccagctgg cgtttttttaa catccccttg atggcttaca tgtgttgag ctt 413

<210> 110
 <211> 152
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(152)
 <223> n = A,T,C or G

<400> 110
 ccgcgngggc ggccgaggtg caagcttttt tttttttttt tttttttttt ttaccattgg 60
 atgattttta attagatgta aaggctggca tattanccat aaatttcatt tcangagcat 120
 aangggngta acnccangcn ttatgaaaag gc 152

<210> 111
 <211> 286
 <212> DNA
 <213> Homo sapiens

<400> 111
 aggtactgat cagatcaagg acctccccc cccttctcac actctgccca cttccggcct 60
 ttgcttatca gacccttagc cagtgactca ttccagaacc agaacccttg tgaaatctca 120
 accgacacca gagatcgggt tcttcagtc tagactgatg gagaaaatcc agaatatata 180
 ctagaagctc caaatgctct gggtttcagc tcctctgtgc tgtggacact gactttggct 240
 cagaactccg atttagtacc tgcccggggc gccgctctag aactag 286

<210> 112
 <211> 530
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(530)
 <223> n = A,T,C or G

<400> 112
 gggcnattgg agctccccgc ggtggcgggc gaggtacaag cttttttttt tttttttttt 60
 tttttttttt tttttttttt tttttttttt tttttttttt ggnccccc aaaccatcctt 120
 tnttgagtn ttagttcang gganctgcnt gaaaaacntt tcngggggaa tttncanttt 180
 ccagnttaaa naacttgccc cccccataac cantttttga aagtcanttn nttaaanggn 240
 ttaaanctt ttgtngggcn tganggcang ggacaaagct ncaanttggc ctgnncnttt 300
 ggaagctgng gcaggnggnc cntttgnncc caggancctg anaccagccn gggcaanata 360
 aaaaatccnt ntnaanaaaa aaaantttta nccngngng ctgngngctn tatnccann 420
 tncanggggg gnggattgnt taggcctggg ngnttgggga tncaatgagn tgnnattgng 480
 ccaccanant ncagcctggg caatanagga aggactgttt taaaaaaaaa 530

<210> 113
 <211> 478
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(478)
 <223> n = A,T,C or G

<400> 113
 tgggcgaatt ggagctcccc gcggtggcgg ccggggaagg tcagcgccgt aatggcggtc 60
 ttggcgctcg gaccctacct gacccatcag caaaagggtg tgccgcttta taagcgggcg 120
 ctacgccacc tngaagtcgt gggcgctcc agaagagaca aataccgata cttttgcttg 180
 tttgaatgag agcccgggtt ggaaagaaca taagaatgaa aaggatatgg ccgaaggcca 240
 cccannttgc tgaaggaggc ccgaggaaag aattccttgg cctnggcccg ctctagaact 300
 agtgggatcc ccngggcttg canggaaatt cgatatcaaa gctttatcga taccgtccga 360
 cctcaagggg ggggcccccg taccagctt tttgttcct ttagtggagg gttttaaattg 420
 cgccgcttgg cgtaatcatg ggtantaagc ntgtttcctg tggtgaaaat tggtttatc 478

<210> 114
 <211> 791
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(791)
 <223> n = A,T,C or G

<400> 114
 tagggcgaat tgggagctcc ccgcggtggg cggccgaaga cactgcgact ccggagacag 60
 gccccaaata tccctcgga aaggaagcgg ctcccnggaa gaaaacaang cttingaacca 120
 ctatgctttc atcaaagttt ccggctganc cactggagtc ctggccntgg aaagaaagaa 180
 taggaaagac caaccaccac cactttgttg ttcaattggn gggatggttn aaagcccacc 240
 aagcccccaa gaattaaaac canggcttgt ggaaagaaag cctggtattg acatttggat 300
 tgtgggccca aggttcaaac caccctgga ttccggccct ggatgggaa gaagaaagga 360
 aagggcatta tggttccgac tgggcttcct ggattaacg aatggccttg gggatgggt 420
 ggccaacaa aaaatttggg gggatcaatc ttaaaacctg gaggtcccag gctggcccta 480
 aatttctgga aataatataa taatatatta ntctttttc acccttcngg gcccggttc 540
 ttaagaaact aggtggggga tcccccccg gggccttgca aggggaaatt ttcggaatta 600
 tcaaaaggct ttattcgat taccgcgtc cggacctcg gangggggg ggggcccccc 660
 gggatcccca agcctttttt tggtttccn ttttaagtgg anggggggt ttaaaatttg 720
 gcgcgcttt gggccggtta aatccaatng gggncataag gccttggttt cccttggtg 780
 tgggaaaaat t 791

<210> 115
 <211> 555
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(555)
 <223> n = A,T,C or G

<400> 115
 gggcnaattg gagtccccg cgggtggcgg cgccgggca ggtacaggc ttctcatcat 60
 acacaaaccc tccacagccc acggctccaa cccacagcac ctctgcagt ccttttatgc 120
 ttcttgtttc ttctccatca ataatatgtc agtcaactgc ttgtcagaga cacttagctg 180


```

ctgacaggtc ctcataacct gactcangta aactgccaaag agatgcttgc actgcactcc 240
tcacgttagt cctaagttat atttcttcct tgccttcaga aagctgtcac agcaatgggt 300
aacattcctt gaggcactag gctgtgaagt gcttctcata gattatctca ctgaaatctg 360
acagctccca ggatgctgtc actcttcctg agcactgaga atgcaaatgc agggacatga 420
acagtaatga caagaagcca aacatgtggt atgttttact ggaacttcca aggacctgg 480
taaacaccgc cttccctggg tgatgagatt aaggtgatgg gctgtccgat caactaggtc 540
caaggcctgg gtggc                                     555

```

<210> 116

<211> 502

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(502)

<223> n = A,T,C or G

<400> 116

```

ccgcggtggc ggccgcccgg gcaggtaccc agagtgcga ggagtttttt aactgattta 60
gccaggtggc aatcatgagt gaatggatga agaaaggctc cttagaatgg caagattaca 120
tttacaaga ggtccgagtg acagccagtg agaagaatga gtataaagga tgggttttaa 180
ctacagacc cagtctcttg ncaatattgn ccttgtgaac ttncctgaag atggcagcat 240
gtctgtgacc ggaattatgg gacatgctgt gcagactgtt gaaactatga atgaaggga 300
ccatagagtg agggagaagc tgatgcattt gttcacgtct ggagactgca aagcatacag 360
cccagaggat ctggaagaga gaaagaacag cctaaagaaa tggcttgaga agaaccacat 420
ccccatcact gaacagggag acgctccaag gactctntgt gtggctgggg tcttgactat 480
agaccacca tatggtccag aa                                     502

```

<210> 117

<211> 437

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(437)

<223> n = A,T,C or G

<400> 117

```

ctatagggcg aattggagct cccgcggtg gcggccgcn ggccnggtac tantttaatt 60
ctganctctc tctagaaggc aggaaaccac atcccacact cctatgcaat tngntatttt 120
ggtattgnaa agtaaataaa taanaagggg tggaggcata aagaaaatct attttctggc 180
tgggcagggg ggntcacgct tgnatcccg actttgggag gccaaaggcg ntggntcacg 240
aggtcaggag attgaggatc atnctggcca acatggagaa acccngtttn tactaaaaat 300
acaaaaatta tgcccggnct tggngacatg cgccngtagt cctagctact cgngaggctg 360
aggcagggga atcacttnna ctgggaggtg gaggttgctn tgagccaaga ncgcnccatt 420
gcactccagc ctgggca                                     437

```

<210> 118

<211> 373

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(373)

<223> n = A,T,C or G

<400> 118

```

cttagggcga attggagctc cccgcggtgg cggccgcccg ggcaggtact agtntaatc 60

```

```

tgatctctct ctananggca gaaaccacat cccacactcc tatgcaattt gttatttngg 120
tnttgnaaag taaatgaata anaaggggtg gaggcataana gaanatctag tttctggctg 180
ggcaggggtg ntcacgcttg naatnccgcn ctttnggagg ccaaggcggg tggatcacga 240
ggatcatgaga ttgaggatca tcctggccaa catggtgaaa ccccgtttct actaaaaata 300
caaaaattag ncgggcttgg tgacntgcgc ctgtagtcct acctactcnn gaggctgagg 360
caggggaatc act 373

```

<210> 119

<211> 457

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(457)

<223> n = A,T,C or G

<400> 119

```

ctatagggcg aattggagct ccccgcggtg gcggccgccc gggcaggtag ccagagttgc 60
gaggagtttt ttaactgatt tagccagggtg gcaatcatga gtgaatggat gaagaaaggc 120
tccttanaat ggcaagatta catttcaaaa gaggtccgag tgacagccag tgagaagaat 180
gagtntaaag gatgggtttt aactacagac ccagtctctg ccaatattgt ccttgtgaac 240
ttccttgaag atggcagcat gtctgtgacc ggaattatgg gacatgctgt gcagactgtt 300
gaaactatga atgaagggga ccatagagtg agggagaagc tgatgcattt gttcacgtct 360
ggagactgca aagcatacag cccagaggat ctggaagaga gaaagaacag cctaaagaaa 420
tggcttgaga agaaccacat ccccatcact gaacagg 457

```

<210> 120

<211> 296

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(296)

<223> n = A,T,C or G

<400> 120

```

ctactatagg gogaattgga gctcnccgcg gtggcgcccg aggtactcat ccaggttgta 60
ggccatggtg gcgtgttcct gctcgttcag naggtgccga ncctgctnct ccancagcac 120
tngtgtctgg ttccccaggc tgctcanggt canctgggag ccggtctggc ccttgtaaaa 180
acctggcttg tttattcctt tttgntgtga gatcgccaag aaacctgtgg ggaaagacac 240
acatntccag ttgtgcattt gagcagatna aatgggcgtg gncaagggac aggggtg 296

```

<210> 121

<211> 267

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(267)

<223> n = A,T,C or G

<400> 121

```

ccgcggtggc ggccgcccgg gcagggtacaa gcttttnttt tttttttttt tttttttttt 60
tnaagaggaa aaccgggtaa tgatgncggg gttgaggnat aggaggagaa tgggggatca 120
gccgacacca ganatcgntn tnttcagtn ctaaacctgat ggaaaaaaat tncanaantt 180
atttacttag natctccaaa atgctcttgg gnttcaagct cctctntnct ggggacactt 240
gacttttngg ctnaaaaaac tccctat 267

```

<210> 122
 <211> 231
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(231)
 <223> n = A,T,C or G

<400> 122
 ccgcggtggc ggccgnggta ctctgaactt tcaaggaggc canancagga aagggaagg 60
 aataaccccc accaccccca acacaagaga ggcacaaatt agagggtctg gcacaggctg 120
 tagccctggg tgagggggta agcagcttga cagttgctct gtggtctctg ggatataatt 180
 ctgcccgaagg ctagaaccac agagaagagt ttgcactntt aagtccagga a 231

<210> 123
 <211> 703
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(703)
 <223> n = A,T,C or G

<400> 123
 cgcttgagc tccccgcggt ggccggccgag gtacaagctg tttttttttt tntttttttt 60
 ttttttccgg ggaaaagata tatatatata tntccagaat taggcagctg gactcagttt 120
 agatgatccc aattttgtng gcaacatcca aagcatngta atcaggancc agtcgaacat 180
 atgcctttnt ttttccatca ggcngaataa ggggggntgn ccttgnccca tcattgcann 240
 cngttttttn anagcctgtt aaatntgggg ctngtngnnt ttaccatnc cacaaaanaa 300
 acncaanggg gggngggngg gttttttntt ttttttnngg ggcaaccnnt aaaggggncn 360
 cngcgaacnn nttttttttt atcncnnggg gggcnaanc tttttttttt tcggggggnc 420
 cnnttttttn ggngannttt ttttcggggg tntntttcna aaganaacan aattnttttn 480
 cccnccnntn ttaaaaaaaa ntannncccc ccccccngng ggtgngggan ntanntttct 540
 tatacggttt tttnttcccc cccnccccn cnnngggggg gggggccccc ccccnccnnt 600
 ttttttccc cttttttggg gggggngnta aaaacnncc gntgngggga nnaaaaaana 660
 aaantanaact ttnttttctc tntgnnnana aaaaatcccc ccc 703

<210> 124
 <211> 419
 <212> DNA
 <213> Homo sapiens

<400> 124
 cttagggcga attggagctc cccgcggttg cgcccgagct gcagatgac agcatcagga 60
 ccgatttctt ctactgtgg ttcttcctaa gttttaccca cttaggacaa atttctttta 120
 ggtatgagga aagactgtga gtcaaatcat tggccttgag gaaacaggag tctggcaggt 180
 tcagttcttc taattcaatc accaagcgtc tgctgctata atagtccttc atcagcttct 240
 gtaggtcttc aggtaacctt ggttttggtt ctgattttgc aagaacatca gtaattttct 300
 tctttcttct tttctgtggt ttggtggtat tctcttttct ttcttttggt tgtatcaaaa 360
 aacattcttt aggtgtttg gttttctctg aaggtacctc ggccgctcta gaactagt 419

<210> 125
 <211> 632
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(632)

<223> n = A,T,C or G

<400> 125

```

ccgcggtggc ggccgcccgg gcaggtactg gatttccaga aagtgaaact aaaagagcgt 60
caggaagcag agaaaatgtt caagggcaaa cggggtgcac agcttgcaaa ggatattgcc 120
aggagaagca aaacttttaa tccaggtgct ggtttgccaa ctgacaaaaa gaaaggtggg 180
ccatctccag gggatgtaga agcaatcaag aatgccatag caaatgcttc aactctggct 240
gaagtggaga ggctgaaggg gttgctgcag tctggtcaga tccctggcag agaacgcana 300
tcagggccca ctnatgattg tgaaaaaaan aattnaaaaa aaacacactn tncaaaaccg 360
gntcnttgac cantngggca atttttttaa naaatagggc cctnttgga caaannnttg 420
cttttttcga acatggggat anataaccct ngttttntn tttnncaaaa gggggaattt 480
natcancctt gttggaaaag gccnaaaaaa ccncntntt nttnatTTTT ngaaaaaana 540
ngntttgaaa ttaaaantnt cntttncnccn ccaaanataa aaaatanncc ctnccctnnn 600
ttntnnaaaa aaaaaaaaaa aaaaaaaaaa aa

```

<210> 126

<211> 352

<212> DNA

<213> Homo sapiens

<400> 126

```

ccgcggtggc ggccgaggtg ctcatccagg tagtaggcca tgggtggcgtg ttcctgctcg 60
ttcagcaggt gccagcctg ctccctccagc agcaactcgtg tctggttccc caggctgctc 120
agggtcacct gggagccggc tgggcccttg taaaatcctg gcttgtttat tccttctggt 180
gtgagatcgc caagaaacct gtggggaaag acacacatct ccagttgtgc atttgagcag 240
atcaaatggg cgtgggcaag ggacaggggtg acttggggca ggaagagcaa agcttcaaga 300
gaaccatgca tcgtggcctc cactcgctgc cagttcaagt ctgggggcta ct 352

```

<210> 127

<211> 251

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(251)

<223> n = A,T,C or G

<400> 127

```

ccgcggtggc ggccgaggtg ctgctttcat ccgatttaga tgcacttcct attgatgatg 60
aagaaggccc accaccaggc ccattttgca cactggcaac tgcattcctc ggaggggggt 120
cttcgagcgg ccgcccgggc aggtacaagc tttntttttt ttttttntt tttttntntt 180
tttttttagg attntaacnc tttattaana ggnccacaagc cacaggactt taaagggcatt 240
gaaatttatt g

```

<210> 128

<211> 117

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(117)

<223> n = A,T,C or G

<400> 128

```

ncgagggtag atttgggata aggggtgggg agggccacaa acttgggctc catagacttg 60
ggcccgtctg tccatcttna cttgggacca ctttncctt tcaagcaggg agggacc 117

```

<210> 129

<211> 365
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(365)
 <223> n = A,T,C or G

<400> 129
 aacaganaga atattaatnt ttatcatttt nttagtcaca ttgtccaagn gnggaacatn 60
 caaaaagtat tcaggatact catacnacat tcccacgttg ttcactaana ngccnatttc 120
 aagaccagcc aagcctgttt taattttatc ataaatatct tctgatgcaa agccaacanc 180
 aatggttntt gtctccactt tgaatttttc ttttatttca ctggaaaacc tggtaagng 240
 tantncttcc gatctgcttg ataaagggac aacccttcat tccatgcctt tgctaacntc 300
 tttctancat aatgattttc caccttgccc ngnggccggn cngttcnact aaggnggggg 360
 ggccc 365

<210> 130
 <211> 191
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(191)
 <223> n = A,T,C or G

<400> 130
 aggtacaaaa agcgttaacc caaaattaac ccaaactggt aaattggtaa gtngttcttc 60
 aatcaaaatt ttaaaagacc atcaaagcca cctttaggaa aaggagaana caagtcacag 120
 actgtagaag cgtntgcagt cacacaaaag ggtcctnaaa ccctttaagg aaaatgtgta 180
 ttgtgaaaaa c 191

<210> 131
 <211> 718
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(718)
 <223> n = A,T,C or G

<400> 131
 ttnttnnacc cccccggtt aagatnnacc nnaaccttnc cacctcatta aggggtncg 60
 aaaaaatntgg agaaaaaact ncccacaccg nongtggttg tgtccgagac cnccgacacn 120
 ccggngnacc agggggttga gccnccatt acnaattttg tccaaaatta agnccaagng 180
 cgaagctntt gatcttgccc aaaanaattg caaananaaa attgggtntt gggngacatt 240
 gggngnaaac caaaaaggc cancctttgn tnataaagg caatnacagg ggaanaataa 300
 ggcaaaacct tgaaggagca anaagnngg tatttccttt ggggcgaana aaaaggagaa 360
 tnaccgcnc ntnaaacctt tngggnaaga aggcncaaa antttaang ggnaacaata 420
 aagaaacct tttttctccg ggnaaaaacc ccccgantt nnttgnggt tatttantan 480
 ccntnttta ttgggagaaa cccntttccc aaagggggg ngaaggcgcc cnaaggagaa 540
 aanaagcntt ttttttttg gggaaaaaaa cccaanattt aaatttnggc nttncaaaat 600
 ttggggaccc ctttcncca aaggnaaag gctttttttt tttngggnc ccaaaggga 660
 gggnaanttan aaanccncc ccttttncnc gggnggggn ncccngccc gngncccc 718

<210> 132
 <211> 815
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(815)

<223> n = A,T,C or G

<400> 132

```

ttttttnttt ggccccnccc gttttaanat taaccggcaa acctttccac ctnattaagg 60
ggggngccgna aaatatggng taaagnactn cacaaccncc ggcgnggatn gagaccngga 120
caccgcagng gtnaccaatc tntnatntnt gtnccatngg ngacatntna accacacaat 180
ggggccantt gtntngcctg ggtntgccaa tnantcttaa gcgccacggg ggggccgagg 240
ggtngcctct nttaattaat tgaagaaccc gccccaattg tngcntngcc gccaattatt 300
ggggcctttg ggggtggccaa gaagaagaag anttnccaan aaaaaaccca canggggaan 360
aaaaanacaa nagggggggc aaccaagggg ccntttgggg aaaggngaaa acnaatttgg 420
ggaaagaaan aagagggggc ctttaataaa naanaagaat taagggggaa aaattcntta 480
aantttntnt tnttnttgcc gcctttnaaa aaaagaattn gggtcaaattg cccattgggg 540
nccnttnggg ggggaaattt naaggggncc caaattattt gtttttttnc cccgggcttn 600
gggggganna aaaaanccca aancnnaag aaaccctttt nccnaaagga nnaagggggg 660
gnttgaaata aacccccaaa aaatttttaa ggngggaaag ggcnttcttt nttcttcccc 720
aaatttgttt gnttgcccaa aaaaantttt cccggggggt tnaaaggagg ggaacccaan 780
nttggggaat ttgggaggga ccccaaancc cttttt
815

```

<210> 133

<211> 696

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(696)

<223> n = A,T,C or G

<400> 133

```

tttttttgga cgcncnccnt tttnaaatta accgncacct tcaaccttat tagggggggc 60
cggaaaaatnt gggaaaggac ttcnccacnc cgcnggggtg gngaccgaga ccaccganag 120
ggnttacctt tnaccaaccg gttaaaaggn natttntctt aagncctca ttgnggggtcc 180
canttgntc ttaatcanac aagccattgc aaccttgctc ttcagggggg gaattttttt 240
naanantttt tccaacccan ttnttttnaa taaaaggggn naaaaanaaca attgngaagg 300
ccaattgttc cggctnttaa atcantcttc aactttgggg gnttgggctt ctcttctctc 360
ttaaattggg gaaaccncc ttgaaattta agaaanaaan aaatttaanc ctttttttaa 420
anccgcgcgc ccccnttgga acccnaagaa agaaattgnt tgtttgcccc ccaattttna 480
aaaacnantt tggtctcnaa cgnnttnggg ggggcttctt tnaaagggn tttaaanaaa 540
naaagggggn cccttctttn ttctttnttc tttncnccnt ctttaaanc ctttnggggg 600
aacaacaan aacnaaattt aaannaattt gggggggccc ccnaagggg ggntngaaaa 660
naaacnccn caaagaaagg gggttnaaat tttttt
696

```

<210> 134

<211> 199

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(199)

<223> n = A,T,C or G

<400> 134

```

aggtacattt tctctgctgc aaccaggat ttgggcttat gatcaggagg aatggtgatt 60
ccatattccc agcctttctc atocaccact cgatttatgt cataagacca tgcatcatnt 120
tcccattccc aacctggagg acaagtcaac tcgctgggag atgctgcttt atcgccgttc 180

```

gcatccgtgt aggtgtcct

199

<210> 135

<211> 609

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(609)

<223> n = A,T,C or G

<400> 135

```

ncnttttttt tttttttgaa cccctcccg ttancannac ngncacttgc nacattnatn 60
taaggggggc acngtanana tatgggntta aacccttacc ccaonncgt ngngctngg 120
ngaccgtgaa cncgcacn ccgtgtgnac cagaggnta anccgtgncc acaatggggg 180
atcctnattc ttggcnctt gtanaatggc aaagattnaa gcgatcatng gnattggagg 240
gtgttttcag ccantggaag aatttaacaa ccctnaagat ttaacttngg ggngcgacaa 300
ttttaanaag gngcgnggcg ttngagttaa agtngcgtng gattngaacc tccttaattg 360
gantggnggg ggaanaaaaa gcctaatang gcttgggggn ggatccttta aagccgggcg 420
ggcccaant tcttttntt ttaaaaaaat tcccttttga aaagggaaaag gnaccggcca 480
aataataggg ggccnccctt ttaatttcaa naattttcc aaagcccggt ttggggccgn 540
gnaccacctc cggggccct tttccgaant ttaaagaaag ntggggggan gncnnaaatt 600
ggggggcnc

```

<210> 136

<211> 621

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(621)

<223> n = A,T,C or G

<400> 136

```

gggggggctg ggggccggga acnccgttat caaaacaacc aatnggntng gatccaacct 60
ttgtggggac catgagncgt gtttgactc ntacctaata attaacattg ggtttggcat 120
tagtncctca aggaaaagag ggtggccaat cgtttttatt ttttagggg ggtaataaaa 180
aaccaacgag gaccgtgagn ggggtttaat aaggagaatt atattggacc acngnaatgg 240
tttctccacc ttgtctatcc aaccattgta gttgtanttn ttgttgaaaa aaccncctt 300
gtaatanan ccttgtttta atangtgga ggggccaaat tnggaagcnc cattgggant 360
ngaatcatt ngnaggcggg atttttcggc cnaacccaag gtttangacc acganggggg 420
gggtttaaac aaaattggaa acaagtngg gnaaacccct ttttagggcc ctttggngg 480
gaataattgg ggataaaata attcngggc cggaaaggca aaaanttaaa nttttttggg 540
gggggggggg ccnttaggg gggtccttca aaaaaaatta atttggggat tgggcccata 600
gggggttcnt ttcccaaaag g

```

<210> 137

<211> 889

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(889)

<223> n = A,T,C or G

<400> 137

```

ggaccggaaa aatgtggaga nanggcctta cacaaccacc gcaccngnt ggngaccng 60
acnccgaagn gngtnaggnc naccattcca aacctctn aaggggattc tgggtngana 120

```

```

ccaaaccccg gggaccacca agggncatng ggctcntggg gacattgccca caatttgaag 180
gagtgtntgg ggnaaaaagg cccccattac gccataagcn agggggccaa tnggggggga 240
accacatntt ggnttaggac ctccaacggt naattgggga taaaaagggt ccaacagggn 300
ggcttatccc caaccctttc caaattattn gggggnatn tggggggcna ncccaataat 360
aanaataaat tcccggngnt taanaattgc cnttaccgcc naagaaagng nccnaataac 420
agggggaatt gtttttnttg gggggntttg cccaccaaag aanccattag cctttggggg 480
ggggctcttn ttngggggga anaaaaaaag aagaggggtt tcccncnana ggggnccgtt 540
tnccacnntt ntttgggggg nggaaggcca aaggcttccc ccttnggtnc cnaagggaaa 600
aanccntttg ggtccccaan ggggtatttg gaggannccn accccgggaa aaaggtgggc 660
ttttcccaa agggggggcn aaacaaaggg nagaaaaaaa ttngggngna anccgcctt 720
ttntttggtg ggccnccct ttttttgtt ttggccnaaa ccccaaagg gggggnccc 780
ngcccgccca nccggggggg gagccaccc cngggggccc ctttttccc ttttgaaaag 840
ggngnaaaaa aaaccccct ttnaaang ggaattagg ggggggaaa 889

```

<210> 138

<211> 474

<212> DNA

<213> Homo sapiens

<400> 138

```

ccgcggtggc ggccgcccgg gcaggtctgg aatataatca gtggttcaca aaactgtcct 60
ctaaggatct aaaactgtcc actgatgtct gtgaacagat cttgaggggt gtgagtaggt 120
ccaatcgact ggaagaattg gtgttgaaa atgctggact tagaacagat ttgacacaaa 180
aactggccag tgctctagca cataatccca actcaggact ccacacaatt aacctgtctg 240
gcaaccact ggaggataga ggtgtgtcct ctttaagtat tcaatttgcc aaactccaa 300
agggcttaaa gcacttaaat ttatctaaaa cctcattatc acctaaagg gtgaacagcc 360
tttctcagtc actcagtgcc aatccattga ccgcctctac ccttgtccac ctgcacctct 420
cagggaacgt ccttcgtgga gatgacctct cacacatgta taattttttg gcc 474

```

<210> 139

<211> 251

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(251)

<223> n = A,T,C or G

<400> 139

```

ccccgcggtg ggggccggct tccagtngcc cccggggtag cggttctcgt tctgatagac 60
ttcatcagtg aactccgtgt gacctgcac tgnctcagtc agcaagcttc tttcaggatc 120
aactatccac tctccttnc attcccagcc ttttgaggc agaaaaaatt cctcttgag 180
ttttattttt cccgtgacat cagaaaaact tatgacgtcc tactaatcca gaagtacctg 240
ccccggccgg c
251

```

<210> 140

<211> 60

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(60)

<223> n = A,T,C or G

<400> 140

```

acngttngng gactgggnaa aaacccttg gccgtttacc caacttaaat ccgccnttgc 60

```

<210> 141

<211> 233
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(233)
 <223> n = A,T,C or G

<400> 141
 cgggcaggtta cttctggatt agtaggacgt cataagtttt ctgatgtcac gggaaaaata 60
 aaaactcaag aggggaattt ttttttgctt ccaaaaggct ggggaatggg aaggagaggt 120
 ggatagttga tccttgaaag aagcttgctg actgaggcag atgcagggtca caccggagtt 180
 cactgatgaa gtctatcaga acgagagccg ntaccccggg ggcgactgga agc 233

<210> 142
 <211> 578
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(578)
 <223> n = A,T,C or G

<400> 142
 tnccttagggc gaattggagc tccccgcggt ggcgcccgag gtaccttaag acaaaagtta 60
 tgaatgacac aagaattcat ggctaagcaa aaataaaacc tccagtgtga aaagagagga 120
 agcagaagca acaaggtttc ccatgaaggt ttgtagttta agacattccc ggactgagtt 180
 cttgcccttt gaaaagaggc aagaagatgg aaactcattg tgcaccctat gtgcagcagg 240
 ttttctggac accacagctt catgaaactc tgtgtctgtg aacatcccaa gaggtgaaat 300
 caggaatcat aaataagacc ttgtgccttc aaggagatga ttgtcatttc ctcaagtttt 360
 tgaggcagag gctttgagga ttctgcactc tcttttcttg tagacatgca atcacggaag 420
 tatggattca aaattgcttt ctgttcata gaaaggaatt aggagttatg tttagggctc 480
 ttcttccatg ttaaaatccc tatgccttnc taagaaaaaa gcttaagttt aaaatctcca 540
 tgaaaacaat atttatgctt ganaaccaa agtgaaat 578

<210> 143
 <211> 228
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(228)
 <223> n = A,T,C or G

<400> 143
 cgggcaggtta cttctggatt agtaggacgt cataagtttt ctgatgtcac gggaaaaata 60
 aaactcaaga gggaattttt ttntgnctcc aaaaaggctg ggaatgggaa ggagagtggg 120
 tagttgatcc tgaaagaagc ttgttgactg aggcagatgc aggtcacacg gagttnactg 180
 atgaagtcta tcagaacgag agccgctacc ccgggggcga ctggaagc 228

<210> 144
 <211> 368
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(368)

<223> n = A,T,C or G

<400> 144

```
tacttagggc gaattggagc tccccgcggt ggcggcgcc cgggcagggt gatcgctgtg 60
ggggcgtcac agataagccc ccaccttggt agaggctggg accattaatt cagacttntg 120
acaacccttt cattttattgc tactatgcaa atatgaggaa agaaacattt tttagaagga 180
aagaacaact ctaccaacta attocgtctc aggatttctt gaagctcacc tgactatgct 240
ttaatctatc taggagcccc agaaagctac ttcacaccca tcaggcaagc ttagaatcat 300
tgaaagctat acctttactc tccctcttca tagctccttt ttttgtacct cggccgctct 360
agaactag                                     368
```

<210> 145

<211> 787

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(787)

<223> n = A,T,C or G

<400> 145

```
tttttttttt tttganaact taccangcc ccangaggcn caccgtccaa aatcttacac 60
cccactttna acnttgaaga aannggggga aaacaccaa nactaggggn gcttggggcg 120
tgaaccaccc ngaggngccac ncacacacac atncgtanag ggaatccgga caccgtgctg 180
naattcagat atnatagggg catttngtta ttgaatnact gatacatttn gncattgnc 240
caagcgccgc ccggggngat ggngcacaat cnetccaacc tttangcttt tatngccttg 300
aggaggaggc ncggggggca accgaaccac nctggggntg aaccnaangg ggnatataac 360
caccgttacn cncattggg gccncccttc tttttaagaa agaaccaag ggagaaanaa 420
tcaaaccntg ttgtctnntt gtccctctct ntnttcttct tatnnattgg nggaaccnc 480
ctttnttttt tgnctgttgg ccaaagnaatt aatttttaag ggggtntctc naaanaana 540
aanaaaggaa gttgttngcc cttaaatttt aaagggggaa agaagtgttg gggaaacct 600
tttaccaaaa cccttttttt tccgcanaa aaanttnaac ccctttgaaa gnaaggngga 660
ancccaaacc ccaaggatng ganaaagnng gggntctttn tttaaaggcn cccacccttn 720
ggggcccat gnttatngc ctttttttta aacccccccc aaaaaanaa ntttttccc 780
caaattt                                     787
```

<210> 146

<211> 522

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(522)

<223> n = A,T,C or G

<400> 146

```
cttagggcga attggagctc cccgcggtgg cggccgaggt accttaagac aaaagtatat 60
aatgacacaa gaattcatgg ctaagcaaaa ataaaacctc cagtgtgaaa agagaggaag 120
cagaagcaac aaggtttccc atgaaggttt gtagtttaag acattcccgg actgagttct 180
tgccccttga aaagaggcaa gaagatggaa actcattgtg caccctatgt gcagcaggtt 240
ttctggacac cacagcttca tgaaactctg tgtctgtgaa catcccaaga ggtgaaatca 300
ggaatcataa ataagacctt gtgccttcaa ggagatgatt gtcatcttct caagtttttg 360
aggcagaggc tttgaggatt ctgcactctc ttttcttgta gacatgcaat nccgggaagt 420
attggattca aaattgcttt ctgttccata gaaagggaat taaggagttt atgtttaggg 480
gctcttcttt ccatgttaaa atccctatgt cctcctaaga aa                                     522
```

<210> 147

<211> 288

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(288)

<223> n = A,T,C or G

<400> 147

tacttagggc	gaattggan	ctcaccgngg	ngggcgccga	ggtacgttgc	tacgacgacc	60
tcagtgcgct	actgtggggg	ctagaggggtc	tcccactgac	cgtgtctgct	gttcagggag	120
ctcaccaggt	gctgcgctac	acagaggtgt	tcccaccaac	tccagtccgt	ccagccttct	180
ccttctatga	gactctgcgg	gagcgggtcct	cactgctgcc	ccggctcgat	aagccctgtc	240
cggcctacgt	ggagcccatg	accgtgggtt	gtcacctgga	gggcagtg		288

<210> 148

<211> 923

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(923)

<223> n = A,T,C or G

<400> 148

tttttttttt	tttgaantnt	taccacccnc	aaggaancgg	gaccgggcca	acattgtgan	60
aaccnncctt	tccaccttat	angggggggg	gganaccaca	aaanggnctg	gggggataac	120
cacgggggga	cacacacaca	cacatacgaa	aggggatnac	gaaaccgngn	tnaaatnccg	180
anataaaagg	gaentctggg	nnattaatta	ccgganaaaa	tntacacntt	ggnccaagg	240
acncacgggg	gnngggggag	aattncncca	accctnangn	ttntncntta	agganaagna	300
ccggggggacc	accggaaaaag	ngggatnaaa	ccttttttgc	caaattgggn	gaaagaaccn	360
tnttgcctta	attnttgggg	nccaagggng	ccaaagnncc	aaaaaaattg	gggttggcnc	420
ccaaatnatt	gggaccattn	ggatngggag	gcggnccaac	aaanaacagg	gggttnaatt	480
ttccaaaatt	nttttttggg	ggaaagganc	ccttacntt	ggggggggcc	cttnttgttg	540
ttnaaatnt	ttaaaaaaac	ccnaatttgg	ggaaatttac	ccggnttant	tgggagngg	600
gaaaaaattn	gganccaaac	cccaaagggg	ggnnttttaa	attnccctt	nttggggacc	660
attngggccc	cccccaaaaa	ggnnttattt	gccaaanccc	gccttttccc	gccttttnaa	720
aaaaccnnaa	ntntttnttt	tccccaaaaa	aatttttttg	ggggccnttt	cccttttnaa	780
atattttttg	ggggcccttt	taaaaaaaat	ttnggggna	aacccctttt	ttnttcccaa	840
aatttttttn	ttttnaaacc	ccnaaatttt	tttttnccca	aaatttnaaa	attttttttn	900
ttttgggnnt	tcccccttt	tgg				923

<210> 149

<211> 660

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(660)

<223> n = A,T,C or G

<400> 149

cctttttttt	ttttgaanct	nnccnccctc	caggaacggn	cgngccaaca	tntnagaccn	60
ccttacaacn	tnataagggg	ngagacacca	acacaangan	ctggggggnt	aaccacgggg	120
ggacncacac	acacactncg	aaagggatna	cgacaccgng	gatanattnc	gnaataaaaa	180
ggaacntnt	gggnnatcaa	tcacngcaaa	aatnatncnc	nttggaccna	agagccncca	240
cngggggggg	ggggggaaat	ntcccccaac	tnaaggcntn	ntnccnttag	gagaagcncc	300
gntggacanc	cgnanaagg	gantattctt	ccnccnaagg	annaagggcc	naanaaaccn	360
nccttggngg	agtnggggcc	cnccnccggn	ngcctttggg	taaaccaccn	ccctnnggaa	420
aagnnctttg	gntnaaanaa	agggggnaac	caccgggna	ccaccnnttn	ggancacccg	480

```

ggggtggagg gaanaaaccc ttttccaaag ggaagaaacc cnaanccctt tnnccnnaat 540
ggnggggggg nggaaaaanaa ccccaaaaaa ngaaacaaat tnggcggggn tncgccaaag 600
ggtanccccc caaagggaca aaggctaccc ttgggtggng ggnngggaaa aaaaaaaaaa 660

```

```

<210> 150
<211> 145
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(145)
<223> n = A,T,C or G

```

```

<400> 150
agctcnccgc ggtggcggcc gaggtacat ttctdggctt cttaaagcgg acaggatatg 60
cacatgtctg tcctccatac cgtgttcatt atgttctaaa agttggatcc catcagtttg 120
ttttatagaa tgaagacagg tgtgt 145

```

```

<210> 151
<211> 559
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(559)
<223> n = A,T,C or G

```

```

<400> 151
ttagggcgaa ttggagctcc ccgcggtggc ggccgcccgg gcaggtaaa gactctctcc 60
catgctggat taaacttctt aaatacttgg aacatctggg ccaggccttc agtgcctcc 120
ttggcaggga tggcaaagta gactgctcgg gcangatgac cctccagctg cacccgaggt 180
ccatccacca ggaaggtata taagacctta ccccttgggt tataggtcgg gtggataaat 240
aagatctcag ggaatgggtc aaagacactt tgcataaagc agctctggta gttgaaggta 300
tctaactggg cagtcttggt aacctgggtc agcagcatag gtgggcttga gtccttaatc 360
aggagcccat tcagcattgt cagggccatg ggagagatga gagctgtcca aatgccaaag 420
tcaaaatact ttctttgcag ggcagctgac cacggggctt tgagtctctc aagcatcaag 480
taagttgagg ctggaggcta gacaatcatt cccagatctt ttttcaaaga tgggcccaca 540
gccaggctcc gtcgcacct 559

```

```

<210> 152
<211> 318
<212> DNA
<213> Homo sapiens

```

```

<400> 152
cgaattggag ctccccgcgg tggcggcccg cccgggcagg tactaatgtt attaattgtg 60
ctgacaagta attagaaaac tggaaattaa attttacaaa catttttaaa atcgctacaa 120
ttaaaaaaat tcaagatggg tacattatga atatgaatga aatgtcatta gcgacttcgt 180
taaattgtata tgtaattcta tattttcccc aaaaccaca ttttatgaag aatattttatt 240
tatttattta tttttggttt ttgagatgga gtctcgctct gttgccagac tggagtgcaa 300
tgggcgatct ccgtcact 318

```

```

<210> 153
<211> 411
<212> DNA
<213> Homo sapiens

```

```

<220>

```

<221> misc_feature
 <222> (1)...(411)
 <223> n = A,T,C or G

<400> 153
 ggagctcccc gcggtggcgg ccgcccgggc aggtacatgt aaaatcttac tgcagtttta 60
 tgtttttaaat agtcaaaaata gaatgtataa tcttgatgat gtttataaat catcaaatgc 120
 cctttgggggt gtaaaaatgg gttcttgagc agcagtgtct aatgattoca tcacaaattt 180
 gttataaagc caaactccca ttgaaagtgt cactttatgc ttaataggaa atcgttatga 240
 ttaaagcatc aaggaagcaa atataaagtt taatgaaaat ccaaggggaa gttctaaatt 300
 gcaaaacttg gcacttatct acagtntttt gaaaaataac accaccggta ttcaaaccta 360
 cctaggaata tctnaaaata acctgttaat taagtgttct tagaaagggg a 411

<210> 154
 <211> 204
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(204)
 <223> n = A,T,C or G

<400> 154
 ggcgaattgg actccaccgc ggtggcgggc gaggacacct acacggatgc gaacggcgat 60
 taagcagcat caccagcga gttgacttgt cctccaggnt gggaatggga agatgagngc 120
 atggnnttat gacataaatc gagtggngga tgagaaagggc tggaatatg gaatcaccat 180
 tcctcctgat cataagccca aatc 204

<210> 155
 <211> 233
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(233)
 <223> n = A,T,C or G

<400> 155
 aggtactcgg gcctctgccca ttccagcctc gggccctgag atccctgaac ccccgacctc 60
 tgtctcctgg gccccagcta cctcagattc tagccctggg acccctgaac tcctagatgc 120
 tatctcttgg gtccccaaaa tcttaagttt ntgctgggcc aagtcgctat ctntggaacc 180
 tntgaacccc aacctcttta cctggatccc tgtggataag cttaaacctt ggg 233

<210> 156
 <211> 411
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(411)
 <223> n = A,T,C or G

<400> 156
 ggcaggccga ggtagtgact atganacggg agtccatcct ttctacgctt attggcagag 60
 tttctgcact caaaaagaatt ttgcatggaa ggaagaatat gatacacgng nggtttcaaa 120
 ccgctgggaa aaacgagcca tggaaaaaag aaacaaaaag attcgggaca aagcaaggaa 180
 atgagaagaa tgagcttgcc cntcagntgg gaannttttna tttcntaaaa aganaataaa 240
 aagagttcan gcncatttga aaacttgttg aaagaacata atgcaagaga angccnanga 300

```

aaagccgaaa gagatgaggg cgggctagca gaannctaan agcaggcnca aaacttggtt 360
nnagcagtta ccttgccctn ggcggcccg cctanaaaact angtgggatc c 411

```

```

<210> 157
<211> 564
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(564)
<223> n = A,T,C or G

```

```

<400> 157
cgggcaggtg ctcacagctg ctatcaggtc atcaagagtg tcggtaagcg tctgagctgg 60
agttgcaacc attagtccat ctggttcttg aactaacagc ccctgatcat gtccagtaat 120
agcaatctga ggctgtccta caatctgctg attacctgat actttctgaa gttcaagaga 180
atttgctcca ttagaacctt agtcactgga aaagttacac tgtggagatg ataaaggctg 240
gactgggaca aaatcaatct gttctgccga tgggtggagac tgttgctcat catcaacatc 300
attatcttta aataagattg tgtcaacctg aggtaactct gaaaagtgat cctctgggag 360
actaccatct ccttcccctt ctgggaagac tcctctatga gagcactgtt ggtgtagaga 420
cactgtgtct ttctgacctt tggtttccaa gtattctttg gtgaattgct gctgtgtttt 480
catctgcaac tgcctttcca ctttctgcag ttctttcaat attttcttct tcttctggac 540
ttgctcttct ctgntctttt taag 564

```

```

<210> 158
<211> 656
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(656)
<223> n = A,T,C or G

```

```

<400> 158
tagtttttcc ttaaggaagg ccgcgccccc ngaagnnggtt accccgtcta tnggggggga 60
aaaaaggaat agnacanaaa natttcatta aaaccccaaa agccattan aattatttnt 120
ggcnanaggg aggaacctt antnccccac ttttttttaa ntctnctnntn nctctttatc 180
nnttngnggg ntttnttana ccntaaagca aaaaatttaa accttttttn gccaaaaggg 240
ggagggaagg ccccaaaaaa gnccttaaan ntanccccc cccgggaaaa aanccccaag 300
ggaacccgna agnnccttat ccccttaana gggaaaaccn agggccttta tanantaggn 360
aagggccaac ccaacccccc cgggttcctt taattgggtt aaggncocaa anaaaaattt 420
aangcttttg ggggggaaaa agngaattnt ttttaattta aggggggttt anagnnaagg 480
gggcccggaa acccaanaaa aaccnccntt aacccccgg naaagggcc ccnttggggg 540
gttgggaaat ttnaagggcc cttgggggtt tnttgggttc ncccaaanng gnaattnang 600
ggaaaaattc cttttaaaag tttttnccaa aaacctntt ttnaaaaaaa tttttt 656

```

```

<210> 159
<211> 558
<212> DNA
<213> Homo sapiens

```

```

<400> 159
tgagagatcc cctcataatt tccccaaagc gtaaccatgt gtgaataaat tttgagctag 60
tagggttgca gccacgagta agtcttccct tggtattgtg tagccagaat gccgcaaac 120
ttccatgcct aagcgaaactg ttgagagtac gtttcgattt ctgactgtgt tagcctggaa 180
gtgcttgtcc caaccttggt tctgagcatg aacgcccgcg agccaacatg ttagttgaag 240
catcagggcg attagcagca tgatatcaaa acgctctgag ctgctcgttc ggctatggcg 300
taggcctagt ccgtaggcag gacttttcaa gtctcggaag gtttcttcaa tctgcattcg 360
cttcgaatag atattaacaa gttgtttggg tggtcgaatt tcaacaggta agttagttgc 420

```

```

tagaaccat ggctcctttg ccgacgctga gtagatttta ggtgacgggt ggtgacaatg 480
agtccgtgtc gagcgctgat tttttcggcc ttttagagcga gatattataca atagaatttg 540
gcatgagatt ggattgct                                     558

```

```

<210> 160
<211> 820
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

```

```

<400> 160
ccacntnaga tttcnttagc aagtcnngnt cnccgcnagcg cttactcn cnaggcctta 60
attcaagact tngcgatcgn tnaggcccca ngntnacng nccacangnn aaatgcacaa 120
tggggcagta aaccttgnc aaacagggng taagnacang tacacgnaca tattanatat 180
ggacntttna tcnatgtgnt tcgangnaca nggagtatat anagnaaaga naactaacct 240
tttaaaactt gggnttnccc caaaaanaaaa ngcangcaaaa nttatanaaaa attatcccc 300
ctaaccttng gttcctttcn aaaaaagnga aaaaattcna attnggcctt cccaataggg 360
naaggcccaa tnttgttnc cctngggggg aaattacctt tttgggggga anggaaaaaa 420
ttcccccaa acaatanna ggnccaacna cccaaangtn aaccnaaaaa ataattncca 480
aaaacccnaa cnaataagtt tttaatctcc ngtttaaccn cctttgga ncccgnggn 540
ggtcnngngg tcntcccggt cntcccaacc accnggantg gggnttaggn ggnaagtacc 600
nttcnccaa aaatttttct gncccccct taattnaagt tncgggnaag ggtttccgnt 660
ttnantttt aacccgntcc ggnccnggcc tttcaaacct ttngggtcca cccgnttcc 720
tgttttttt ttaaacnaa aaacnggggt tcccttgggg aaacctttgg ggggnnaaaa 780
aaaaaaacc ccccttgngg nccgntttt aaccccccaa 820

```

```

<210> 161
<211> 416
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(416)
<223> n = A,T,C or G

```

```

<400> 161
tgcatacatc atctttcttg ccccaactcc cctttctaag aacacttaat taacagggtta 60
ttttgagata ttattgcgnt nangtgtgaa tacgggtggt gttatttttc aaaatactgt 120
agataagtg caagttttgc aatttagaac ttcccttggt attttcatta aactttatat 180
ttgcttcctt gatgctttta tcataacgat ttccctattaa gcataaagt acactttcaa 240
tgggagttn gctttataac aaatttgtga tggaatcatt agacactgct gctcaagaac 300
ccatttttac accccaaagg gcatttgatg atttataaac atcatcaaga ttatacatc 360
tattttgact attaaaaaca taaaactgca gtaagatttt acatgtacct gcccgg 416

```

```

<210> 162
<211> 462
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(462)
<223> n = A,T,C or G

```

```

<400> 162
ncngcggacc cgagctatca gctgggtgtag ccagtaggca agaagaatgg agaactgcaa 60

```

```

agggagaaga agaaataaag acttacaggt ncagaagaga aaagaaaaca cttaactgtt 120
ccaaaagagg aataaaatac ccacctgttc tcaaagaatc atgctcatgg agcatttcct 180
ggatcttggn aggaatccaa aaaaggcaac agnacaaatt caaccacaat tattcgtacc 240
ctgccccggg cgggnncgcc aaccgcggg tgggaggctc ncaaantccg ccctatagtt 300
ggaggttcgt attacngccg ccgcctcact ggccgncgtt ttttacaacg tccgtggact 360
ggggaaaaac ccctgggcgt taccccaacn ttaattcggc ctttgcaggc acanccccc 420
cttttcgccc aggcntggcg ttaatnagcc gaaaanaggg cc 462

```

<210> 163

<211> 895

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(895)

<223> n = A,T,C or G

<400> 163

```

tgcgtagggg ttccgtaccg ggggtgattcc gaatnaanga cctctggaat aatnccgnag 60
ggtgtcctng cgaggncncc ggggggggag nattcgcgac gtgagntttt ctcagnaagn 120
cnggtcaccg aaggnggtgc tcagaaatgt ttacacntag atctcacgnt tctccaaata 180
aggaagtgna gaccacggcn tacctttttg cggacgacct naagcggaga ganaaaacnc 240
nttttggtta tgnangnagg ggangntcat atananaaag ttnttanacc acccnccaat 300
naaggtnagg ggccccctaa aaataagtct atgnccccna accccacact nttaaangg 360
gaaanaagnc cggttttcca aangccnctt caaaaaccaa ctcccnacct ttanccccct 420
aaaanaaaa aaaaatttcn tcnccaaaaa taacccaatt taattnaaan cgttgggaaa 480
aaccttnoct cctttccaaa ccaaaccncc nccaaaaatt tttgggggga accccaaca 540
atttccttta attcccaacc ccngcntta atttaaggga aaaagggtaa aaaccttta 600
aaaaatttg gntnttnaag gnttnanttt taaaaagggg ttnaaaacc aaatttggg 660
aaaaaaaana acccaatttt ttccctttcn nccnttttct ccggggccna atttaaaaa 720
gggccccccc tttggggccc nggtttccta aaggnnaaat ttttnaaaa anaaaaancc 780
aaccctttg naaaaaaacc tttggggaac ccanaaant ttttaaaaac ccaaagggcc 840
ccccccaan aanttaattt ncctttaacc caaaaaattt ccaaaaaacc ccna 895

```

<210> 164

<211> 180

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(180)

<223> n = A,T,C or G

<400> 164

```

agctggactt tttcaaacc agagttggac caaaatnttt gcttggagat tccgattttt 60
gtccaaccaa tgagtgaacc ttgctttcat ctggtacaag gtccatgctc ttcgaggctt 120
tcaaattaat tgattcaggc tgcctggccg gtgtcacaga tctgaagttg atgtgctacc 180

```

<210> 165

<211> 566

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(566)

<223> n = A,T,C or G


```

<400> 165
ccgggcaggt actaatgtta ttaatgtggc tgacaagtaa ttagaaaact ggaaattaaa 60
ttttacaaac atttttaaaa tcgtacaat taataaaatt caagatgggt acattatgaa 120
tatgaatgaa atgtcattag cgacttcgtt aaatgtatat gtaattctat attttcccca 180
aaaccacacat tttatgaaga atattttattt attttattat ttttggtttt tgagatggag 240
tctcgctctg ttgccagact ggagtgcaat ggtgcatct ccgctcactg caacctccac 300
ctcctgggtt caaacgattc tcctgcctca gcctcccgag tagctgggac tacaggcacc 360
gccaccacgc ccggctaatt ttgtatttt tagtagagac agggtttcac catgttagcc 420
aggatggtct ccgtctcttg acctcgtgga tccacccgc cttggcctcc caaagtgcg 480
ggattacaga cgcgagctac cgtgccagc cgcaacattg attttttaag taaagtgcg 540
aacgtttatt tatttatatc aaaaat
566

```

```

<210> 166
<211> 371
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(371)
<223> n = A,T,C or G

```

```

<400> 166
tagggcgaat tggagctcnc cgcggtggcg gncgcccggg caggtagcag aaagtgtgca 60
caggattggg aatgtaaaga tcatcaatgc taactcctga ccttgagagc tttacaaact 120
tattggacac agacaagtgg aaaccgaaa agagaaagca gtcaattcta tatttggagg 180
aagatcatga aaggttttac ataggaagga tttccctttt ggtcaatcag aaaagcatga 240
attctatcaa tagtagaat ctataaatca gtctaactat atactagaga aaacacacag 300
aaaatgcaag taagtataaa tatgtccagt aatttcttaa cattatcttt ttactaataa 360
atataatggg a
371

```

```

<210> 167
<211> 371
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(371)
<223> n = A,T,C or G

```

```

<400> 167
ttagggcgaa ttggagctcc ccgcggtggc ggcccagagt gcagagtgtg gccacagctc 60
cttttatggc caagecttgt ttctccagtt tcagtttttc ttgggctgtt tgcaaatttg 120
tttcgcagtt aaaaggggat ttgccagctg ggatggggga attgggaggc agatggggct 180
tccaggagcg aggatagggt cgttggcctc aggtgccgct ctccagttag gagtatttta 240
ggcacctcgt tccttattgt caggtttaac ttcatttgtt ctcccacttt ataccttaag 300
tgaatttgta gatgtgacaa ggctttcgca gttatatagc tttccagatc aatatcgnac 360
cggccgcccg g
371

```

```

<210> 168
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(231)
<223> n = A,T,C or G

```

```

<400> 168

```

```

aggtacccga gctatcagct ggtgtagcca gtaggcaaga agaatggaga actgcaaagg 60
gagaagaaga aataaagact tacagggtcag aaggaaaaga aaacacttaa ctgttccaaa 120
agagaataaa ataccactg tcttaaaaga atcatgctca tgagcatttc tggatcttgg 180
agaatccaaa angcaacang acaaataaac acaattatcg tacctgcccg g 231

```

```

<210> 169
<211> 317
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(317)
<223> n = A,T,C or G

```

```

<400> 169
gcccnngcag gtacatgtaa aatcttactg cagttttatg tttttaatag tcaaaatnta 60
atgtataatc ttgatgatgt gtataaatca tngnntgccc ttgggggtgt aaaaatgggt 120
tcttgagcan cantgtntaa tgattccatc acaaatttgt tataaagcca aactccatt 180
gaaagtgtca cttintgctt aananggaaa atcngttnn ntaangcatc aacgaagcan 240
atataaagtn taatgaaaat ccaaggggaa gtctnaata gcaaancctn gcncattatt 300
acagtatttt gaaaaat 317

```

```

<210> 170
<211> 331
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(331)
<223> n = A,T,C or G

```

```

<400> 170
aggtaccatc tgatctttnn gccatgtgca tacatcatct ttcttgcccc cactcccctt 60
tctaagaaca cttaattaac aggttatttt gagatattcc taggtagggt tgaataccgg 120
tggtgttatt ttcaaaaata ctgnagataa gtgccagggt ttgcaantta aaacttnccc 180
ttggatttca ttaaacctta tattgcnttc ttggtgctta atcataacga ttcctattaa 240
gcataaagtg cactttcaat ggggagttng gctttataac aaatttgtga tggaatcatt 300
agacactgct gctcaagaac ccattttaca c 331

```

```

<210> 171
<211> 306
<212> DNA
<213> Homo sapiens

```

```

<400> 171
gggcgagtgg cggccgaggt acccctgatt aggaataagg cagcctcggc caaagcagca 60
agggcagcag accttatgga catatttggt ccattttgga ttgagttgac cataaggctc 120
ttctgatttg ggtttaaaca caccaataat ttctctctta ggatccttca caaagtaact 180
tccacttgaa ccttgagaga ttctttcttg aaaaattcca acttctattg cttgctctgc 240
tctcagcata atatcagcaa attctgggtc atccaagaat gcattcatct ctgaagtacc 300
tgcccg 306

```

```

<210> 172
<211> 291
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> (1)...(291)

<223> n = A,T,C or G

<400> 172

```

cgggcaggta cttcagagat gaatgcattc ttggatgacc cagaatttgc tgatattatg 60
ctgagagcag agcaagcaat agaagttgga atttttccag aaagaatctc tcaagggttca 120
agtggaagtt actttgtgaa ggatcctaaa naggaaaatt attggtgtgt ttaaaccctaa 180
atcagaagag ccttatggtc aactcaatcc aaaatggacc aaatatgtcc ataagggtctg 240
ctgcccttgc tgctttggcc gaggctgcct gattcctaata caggggtacc t 291

```

<210> 173

<211> 242

<212> DNA

<213> Homo sapiens

<400> 173

```

ccgggcaggat acatgtttctt tgtaagtgc caacagtatg tatactacac tatgtagaag 60
aaaaataaag aatttgaaat ctgccgaact aagtttactg gtgctaactg ttaactggta 120
tcttgcccttc cccctatgag ctgaaaaatc aggtattatt gagtatcaca aatgcaagtt 180
gcctcagctc ctacagcata agaaaagacc aaacttttta ttttgttaaa tctgaagtac 240
ct 242

```

<210> 174

<211> 316

<212> DNA

<213> Homo sapiens

<400> 174

```

gagctccccg cgggtggcggc cgagggtatag actcctcctt agagggtgtct agcagtagga 60
aatatgataa gcaaattggcc cgtgccttcc agaaatacaa gcaagcaaatt gaatctgaat 120
cctatggatt cacctcattc cctatatccc cctctgccac caacactcag ccctcagcca 180
cgaggtcagg aaacagagag ttgggaccca ccatcggtcc tgtgaatcag cccttatgga 240
aatggactag aactccagca gttgtctact ctggatgaca gaactgtcct cgtaggccaa 300
agactgcctc tcatgg 316

```

<210> 175

<211> 278

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(278)

<223> n = A,T,C or G

<400> 175

```

ccacccgcgg tggcggcccg aggtctcggc caccctaagg gcagggtcttc tgccccaggc 60
cgcgtgtggg ttctttcgac aacttgagga agcctttctc ctgagatcac caaatgcagc 120
ctgcccgggt tctgttcccc attactgcgt atgcggtggg caaacctcct ccggccctga 180
aagctcctgg ctgcctgggg attttctgtg tgctcctaca taaaaagcag cttctgtcac 240
tcanaaaaaa aaaaannnaa naaanaaaaa cctgcccc 278

```

<210> 176

<211> 390

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(390)

<223> n = A,T,C or G

```

<400> 176
cgggcaggtc acaggccccc ttcaatggcc gcattcagga tggctctata cacagcagtg 60
ctggtttatg tagagttcag cagtcacttc agagatgtat cttgtctttg tcaggccctt 120
catcttcatg gccacctgt tttctgccgt gacctttggt cccattgagg actaaggatc 180
gggacccttt ctttaccccc taccattgt ggctcccacc ctgcctcgga ctggtttacg 240
tgtcctggtt cacacccagg acttttcttt gcaagcgaac ctggttgaag cccaaagtct 300
taactcctgg tctcgtaagg ntccactgag accaagatgt cttgagaaca accaaagaag 360
gcctgctctt tgctggcctt taaaaaatga 390

```

```

<210> 177
<211> 480
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(480)
<223> n = A,T,C or G

```

```

<400> 177
tcncccgcggt tggcgggccga ggtaccaaag actccattcc tcccacggct gaaaaaatag 60
gtcatcggtt gcgtggggaa tctgcacatt taattgtcat tttttaaag cagcaaagag 120
caggccctnt ttggttggtc tcagacatct cgtctcagt gaaccttacc agaccaggag 180
ttaagacttg ggcttcaaac aggttcgctt gcaaagaaaa gtctgggtgt gaaccaggac 240
acgtaaacca gtccgnnggc anggtgggac ccacaatggg tagggggtaa agaaagggtc 300
ccgatcctta atcctcaatg ggaccaaagg tcacngcaga aaacagggtg ccatgaaaat 360
gaaagggcct gcaaagacaa gatcatcttt gaagtgactg ctgaactcta cataaaccag 420
cactgnttgt gtatagagcc atcctgaatg ccgccattga agggggcctg tgacctgcn 480

```

```

<210> 178
<211> 380
<212> DNA
<213> Homo sapiens

```

```

<400> 178
gaattggagc tccccgcggt ggcgggccgc cgggcaggta ccagtcctt agtctataca 60
gcacccttgg ttaagcaca cttgccatca tctggtatcc tgctagacta gaatctctta 120
aaagcaaatt ggttttcttt caaagaccaa cttgactcca aagagagatt cagaatccta 180
cttctctgc tgctgcataa agaatctcaa cttcatttt atttgaacac ggaccaaagt 240
gttctgctt ctgagttgtc tgtaagctaa ttctgcagat gttccattca gatttaaagc 300
ttttttactg cataggtatg ggataggaag cctaactatt gtatctgatg gcaaggcata 360
tgttgcagcc acaagtacct 380

```

```

<210> 179
<211> 358
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(358)
<223> n = A,T,C or G

```

```

<400> 179
aggctactgt gctgcaacat atgccttgcc atcagatata atagttaggc ttcctatcca 60
catcctatgc agtaaaaaag ctttaaactt gaatggaaca tctgcagaat tagcttacag 120
acaactcaga agcaggaaaca ctttggtccc gtgttcaaat aaaatgaagg gtgagattct 180
ttatgccaca ancaggagna agtaggattc tgaatctctc tttggagtca agttgggtct 240
tgaaagaaaa ccaatttgct ttttaagagat tctagtctag caggatacca gatgatgcca 300

```

agtgggtgctt aaacnaaggg tgccctgtatt agactaaggg actgggtacc tcccgggg 358

<210> 180

<211> 240

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(240)

<223> n = A,T,C or G

<400> 180

ngtggcgggc gccgggcagg tngctcttac ccatattata aaatataatc caagccagat 60
tagtcaacat ccataagatg aatccaagct gaactgggcc tagattatng agttcagggt 120
ggatcacatc cctatttatt aataaactta ggaaagaagg ccttcagacc atcagtttagc 180
tggagctaata agaacctaca cttctaaagt tgggcctaga atcaatgtgg ccttaaaagc 240

<210> 181

<211> 408

<212> DNA

<213> Homo sapiens

<400> 181

aggtttactt ttagaataat ttatatctga taaattgaat acatcaggat ttgatgtatt 60
aagagcaatt tcaaaagata ataaaaataa gctatagcat atgtcctgaa aactattttac 120
aataccattt aaatatttta ttcatatcta tccgaatatt gaccaggaca ctaatgccac 180
actgcagagt taataatctg tgcattttct ttaccgtaat ggacagagta tgctttctta 240
gctgcctgat tcacatttct ctaaaaatgc tttatcgggt aaagctttca accagcttaa 300
aaataatgcc tctcccatgt ctcatgagtg gaaaaaaagc aaacaaacct gtgtttaaca 360
ataaggtcag catgacatac agcaacaaga gccagtaaat cgaaaatg 408

<210> 182

<211> 558

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(558)

<223> n = A,T,C or G

<400> 182

cgggcaggta ctggcgcgng tggntgatgt gctnatgcca ccatatttct tgnangggac 60
ctgcccagg agcactgnca gtcttctgct gacccccagc cccagagcac accttgtctt 120
gntcaggaca gtncacagga gggctgaaca ntgggaccag gatcnttctn ngaattncac 180
acttaatnct tctctctttt aaaatcttta acatgaaaga tggnttntct aaactttgat 240
attnaggcat ttatttaaat cccttatgnc cgggngcatg gctcacgcct gnnatnccan 300
cactttgaga ggcctagacc ggcggatcat gaggtcaaga gattgngacc atcctttgct 360
gaaacggnga aaccccgttt ctactaaaaa tccaaaaatt angtnngtnt ggtggcgngc 420
accttngtc naaccactta aganccttac cagganaatg gcgtgaaccc cggaggcgng 480
gcttgcatg agtttagaat ntngccctgt tttacttgnt ananaantag actccnctna 540
aaaaaaaaa aaaaaaaaaa 558

<210> 183

<211> 452

<212> DNA

<213> Homo sapiens

<400> 183

```

aggtctctttt aggagtgatt ttgtcagcat agctcctcaa gtatagttcc tcaataattg 60
atatgtgaac taaagcaacg agttactgac tgcccatcacg cccatcataa atgatggtaa 120
gcataggata atggccttttag acagtgtttat tcaaaaagag agaaattggg aggcacccag 180
caaacactgg tctataacat ttctgaattc cagtcagata tgtgttgatg atttcttgat 240
aaggagctca agtcttattc tctgggagtt ctctgagggt cttgcctctg ccctctgaag 300
tcaccccttc ttttgcataa aaactggcct gtgggctctg tgtgcagcca aagtaagcct 360
tcttatcctg cttcgtgccc atgaaagggt aggggatcag ggcaggaact ggaaagcttt 420
tcttgtaaat aaaggccata tagtaaatat tt 452

```

<210> 184

<211> 466

<212> DNA

<213> Homo sapiens

<400> 184

```

tagggcggaat tggagctccc cgcggtggcg gccgcccggg caggtaacttt tattttctaaa 60
aacatctgcc aaataaaacc aacccaaaact cattattttc accattacca agagctagct 120
ctattaaatt tatatcaaca agttaatctg tctctatata gggaagggtt ccgcaaaacta 180
aaatctaaac ctaacttttg tagacaggga ttatggtagg aatttggtat tacaactaaa 240
ccagccagct aaggagtga cctaagaaaa aatatattac atatccttat tgacagaatc 300
acagttagat gctgcactaa aaccctaaat ggtatatctc tcagcccacg taaaatttca 360
gctcaaggaa gttcacaaat agaaacagat aataatgttc aaatattact taagagtgat 420
tacacttaag tcaaacatgg ggaaagaata gcaaatacaa acccca 466

```

<210> 185

<211> 319

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(319)

<223> n = A,T,C or G

<400> 185

```

gcggtggcgg ccgcccgggc aggtacaatc actgagatct ctcttcaact aaaactgaga 60
attggctaca gaaaataagt tgtgacatga agataaaata catattggca aaatataaca 120
cactgaatcc cttggctaca ttaaatcctt aatattgggt aattcatttt ggctttatat 180
tttaaaaaaa tatttatatt aaacatgaaa cttatttttt taacaaagtg tctattacta 240
ttcccctatc tattgcagna aagaatcagt tttttaaaag gaaaataggt tggcatctgt 300
ttgacagaaa tgagtacct 319

```

<210> 186

<211> 360

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(360)

<223> n = A,T,C or G

<400> 186

```

aggtagctcat ttctgtcaaa cagatgccca actatttttc ttttaaaaaa ctgtattctt 60
tactgcaata gatagcgga tagtaataga cactttgtta aaaaaataag tttcatgttt 120
aaaataaata ttttttttaa atataaagcc aaaatgaatt caccaatatt aaggatttaa 180
tgtagccaag ggattcagtg tggtatatatt tgccaatatg tattttatct tcatgtcaca 240
acttattttc tgtagccaat tctcaagttt tagttgaaga gagatctcaa gtgattgtac 300
ctgcccgggc nggccgcacc gcggtggagc ttcaattcgc ctatagttag tcggattacc 360

```

<210> 187
 <211> 220
 <212> DNA
 <213> Homo sapiens

<400> 187
 gcgaattgga gctccccgcg gtggcggccg aggtatagac tcctccttag aggtgtctag 60
 cagtaggaaa tatgataagc aaatggccgt gccttccaga aatacaagca agcaaatgaa 120
 tctgaatcct atggattcac ctcatccccc tatatcccct ctgccaccaa cactcagccc 180
 tcagccacga ggtcaggaaa cagagagttt ggaccaccca 220

<210> 188
 <211> 200
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(200)
 <223> n = A,T,C or G

<400> 188
 cgggcaggac caaatccatc ctctgactta ttctttttca gggaatcttt ctccgtccct 60
 tgtttgcatt tcttggttgc tgtaaagatg tattttatgt caccatcttc aaaggtatat 120
 gggtcattca cttctcccaa actgtctcca ggttggtgng atagaggcaa tgggtcaagg 180
 aagtggagtg gctgcaactg 200

<210> 189
 <211> 337
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(337)
 <223> n = A,T,C or G

<400> 189
 aggtacaaaa gactccattc ctcccacggc tgaaaaaata ggtcatcggg tgcgtgggga 60
 atctgcacat ttaattgtca ttttttaaaa gcagcaaaga gcaggccttc tttggttgtt 120
 ctgagacatc tcgtctcagt ggaaccttac gagaccagga gttaagactt gggcttcaaa 180
 caggttcgct tgcaaagaaa agtctggggg gtgaaccagg aacacgtaaa ccagtcagag 240
 gcagggtggg agccacaatg gnaggggggg gtaaaaggaaa aggggtcccc atcttaagtc 300
 cctcaatggg gacccaaaagg gtcaccggca gaaaaaac 337

<210> 190
 <211> 306
 <212> DNA
 <213> Homo sapiens

<400> 190
 ccgcggtggc ggccgcccgg gcagggtactt ttattttctaa aaacatctgc caaataaaac 60
 caacccaaaac tcattatattt caccattacc aagagctagc tctattaaat ttatatcaac 120
 aagttaatct gtctctatat aggggaagggt tccgcaaaact aaaatctaaa cctaactttt 180
 gtagacaggg attatggtag gaatttggtg ttacaactaa accagccagc taaggagtga 240
 acctaagaaa aaatatatta catatcctta ttgacagaat cacagttaga tgctgcacta 300
 aaacc 306

<210> 191
 <211> 204
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(204)

<223> n = A,T,C or G

<400> 191

```
ttagggcgaa ttggagctcc ccgcggtggc ggccgaggta cacaagaaaa agcggttacc 60
acgcacagga ctctgggttc ctgtcctacc tcttgcaactt gggcaaagga cttaacctcc 120
ttagcctct gttgctttgt ataaaatagg gataattatg gtaataccac agtttgtttt 180
gatgattaag agttgataca tatn                                     204
```

<210> 192

<211> 590

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(590)

<223> n = A,T,C or G

<400> 192

```
tggagctccc cgcggtggcg gccgcccggg caggtagaat ttgaactgtt cagattccta 60
aaaatcatat ggctgnntag gatgtcgaaa ccattcttag agcctagaca taatatctga 120
agtaagtatc agcaatgctt ttaataattc caaaactgtt ttngtagaaa ataagcttgc 180
atgaagaagg ttaaaaaata ataatgggt gataaattga ttttttttct cccatacaaa 240
actcatgaca acatcatggc cataacgcta atgcattatg aatgtatggg gtgaaatgtg 300
ccattcaaaa gcacattcag gctgaggaaa gacaggccta aggttaaggc cattgccact 360
attttaggtc attcataatc aaaacatgta attagcggta gtaaaagcat tctactgaag 420
aggccaaagg gggaccnat ctgtccaang ctttcattnt gttataaccc aatgggcaaa 480
caagcctttt tcttagaccn gcctttgcaa tggtngtttt tcaaggcncn agaaagaaca 540
ccctgaaggg gggctttttac ttnttttttt ttaaaatcca atttttcaaa 590
```

<210> 193

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(480)

<223> n = A,T,C or G

<400> 193

```
ccgcggtggc ggccgcccgg gcaggtagct ttacataact ggcatgtttg atttttaaca 60
aggccctttg gaggtaacca gagcaagtgc cattagcctt tctgtaggtg aataagagga 120
ggcttgagga ggtgccaga gccacacagc ctccaaagag gccacactgg catggaatca 180
ggcatcagc cctgcacgtg gcatgtggtc tctcggtatt tccaatggcc agtgccagga 240
catcaggctc gtgagattaa aatagtagaa aaagatgagg gaaaatgttt cataggggtc 300
ccaggcatca agcgttttaga actggaagac acttttcact gcatagtttg tcagaaaatg 360
cttaaatttc attgggtcag aatgatatct agcttaccaa gttatctgaa cttttaagaa 420
anggggtngg ttttcttttt ttggtgnggn gttttntgng nntgggttgc ttggtntgg 480
```

<210> 194

<211> 166

<212> DNA

<213> Homo sapiens


```

<220>
<221> misc_feature
<222> (1)...(166)
<223> n = A,T,C or G

<400> 194
aggtacacag aaaagcgggt accagcacag gactctgggt tcctgtccta cctcttgac 60
ttgggcaaaag ganttaaacc tcnttatgcc tctgttgctt tgtataaaat agggataatt 120
atggtaatac cacagtttgt tttgatgatt aagagttgat acatat 166

<210> 195
<211> 450
<212> DNA
<213> Homo sapiens

<400> 195
acttagggcg aattggagct ccccgcggtg gcggccgagg tactaaaaaa aaaaaaatcc 60
ataccaata tttttacaaa ttaagattga tgtaggtttt aaaaaggca tttgtatgtt 120
gttagcttac atatggggct aggtaatttc attgctttaa aagatgogcc taggctccct 180
cttggtggct ggatttcttt ttcttcgccc gtggtggcca tggttcttaa tagggccacc 240
ggaatcatgg tttctttctt tttttttttt ttgagatgga gtctcgccct gtgaccacag 300
ctggagttgc agtggcaccg atctcggtc actgcaacct ctgcctcctg gggtcacgcc 360
attctcctgt ctacgcctcc tgagtagctg ggactacagg tgaataccac cacgcccggc 420
tgatttttgt attttttagta gatggggggg 450

<210> 196
<211> 410
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(410)
<223> n = A,T,C or G

<400> 196
cttagggcga attggagctc ccccgcggtg cgcccgagg acaacgctan aatantntnn 60
nttcnanntn tttttacaaa ttaanattnn tntntgtttt aaaaaggca tttgtntgtt 120
gttagcttac atatggggct aggtaatttc attgctttaa aagatgogcc taggctccct 180
cttggtggct ggatttcttt ttcttcgccc gtggnggcca tggttcttaa tagggccacc 240
ggaatcatgg tttctttctt tttttttttt ttgagatgga gtctcgccct gtgaccacag 300
ctggagtgca gtggcacgat ctgggtcac tgcaacctct gcctcctggg ttcacgccat 360
tctcctgtct cagcctcctg agtagctggg actacagggt aataccacca 410

<210> 197
<211> 212
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(212)
<223> n = A,T,C or G

<400> 197
ccggnacagt acttanacct ggtatggaga cccacgggg tgggaaaggg cttccctctg 60
ccttgacaat ttccttgaat atccanccca gtaagaatat tttttacatn atgactttnn 120
ataacacgtt tataactgaa gcaaanctc gaaganacaa cacttaactt tactacagga 180
gttacaccen atgcattttt aattccaatt tt 212

<210> 198

```

<211> 264
 <212> DNA
 <213> Homo sapiens

<400> 198
 cgggcaggc ctcataagag gtccatctct aaattgccct cctcttactt cttccccctg 60
 cctcatgctt tttctcttta atgactagca tcgaaactct ttaaatgggg caggcctgtg 120
 ttctta cctc aggaatagta agaaaagggg gttgggaaca ggggaaatcc agaataaaga 180
 cttg gaaag gaacagagtg ggtgatggca gctatgaaga aaaacagat cagaagaaga 240
 gtcctggcac cttaggaaga gaaa 264

<210> 199
 <211> 542
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(542)
 <223> n = A,T,C or G

<400> 199
 cttagggcga attggagctc ccgcggtgg cgcccgccag ccggcagctt tgcagcggtg 60
 tgttctaggt cagtggcttc aaagactcca gttggattca ttggactggg caacatgggg 120
 aatccaatgg caaaaaatct catgaaacat ggctatccac ttattattta tgatgtgttc 180
 cctgatgcct gcaaaagagtt tcaagatgca ggtgaacagg tagtatcttc ccagcagat 240
 gttgctgaaa aagctgacag aattattaca atgctgccca ccagtatcaa tgcaatagaa 300
 gcttattccg gagcaaatgg gattctaaaa aaagtgaaga agggctcatt attaatagat 360
 tccagcacta ttgatcctgc agtttcaaaa gaattggcca aagaagttga gaaaatggga 420
 gcagttttca tggatgcccc tgtttctggt ggtgtaggag ctgcaccgat ctgggaaacct 480
 cacgtttatg ggggaggagn tgaaagatga atttgctgct gccaaanagt tgttgggggtg 540
 ca 542

<210> 200
 <211> 579
 <212> DNA
 <213> Homo sapiens

<400> 200
 ttagggcgaa ttggagctcc ccgcggtggc ggccgcccgg gcagggtactt ttatttctaa 60
 aaacatctgc caaataaaac caacccaaaac tcattatttt caccattacc aagagctagc 120
 tctattaaat ttatatcaac aagttaatct gtctctatat aggggaagggt tccgcaaact 180
 aaaatctaaa cctaactttt gttagacaggg attatggtag gaatttggta ttacaactaa 240
 accagccagc taaggagtga acctaagaaa aaatatatta catatcctta ttgacagaat 300
 cacagttaga tgctgcacta aaaccctaaa tggatatctc ctgagcccac gtaaaatttc 360
 agtcaagaa gttcacaaat agaaacagat aataatgttc aaatattact taagagtgat 420
 tacacttaag tcaaacatgg gaaagaatag caaatacaaa cccaggggaa aaatgagatt 480
 atggtgattt ccaaatgcag tttctataga ttaggcagag gtaatcattt taaagtgatt 540
 cattcagcta cccagactct ggaaaacagg tcgggggatg 579

<210> 201
 <211> 366
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(366)
 <223> n = A,T,C or G

<400> 201

```

ngggcaggtg caacctttct atantgactt ncagncaagg ntttgntgta ttaagagctg 60
acccatagcc agntgcantc actgngcaaa aatttagaga aactaaattt tgcaaacttt 120
actttgcccc ctttttatta atacatacat agtaaaaaga atataatttct ncatgaactt 180
aataatgcaa aagcatccaa agattttaat gccaatccac attatactgn gatgccttta 240
tagggaaagt tcttttgtaa aagaatgctc tctcccagaa aaagcatttg ggtatattat 300
taggatactg aagaatttct ccacatttaa gaaacattcc aattttattn ctttcanaaa 360
aaatta
366

```

```

<210> 202
<211> 630
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(630)
<223> n = A,T,C or G

```

```

<400> 202
tatagggcga attggagctc cccgcggtgg cggccgcccg ggcacgggtac ttttatttct 60
aaaaacatct gccaaataaa accaaccaaa actcattatt ttcaccatta ccaagagcta 120
gctctatttaa atttatatca acaagttaat ctgtctctat ataggggaagg tttccgcaaa 180
ctaaaatcta aacctaacct ttgtagacag ggattatggt aggaatttggt gtattacaac 240
taaaccagcc ggctanggggt ggaccttaaa aaaaattttt ttanattttc cttattggnc 300
agaaacnnaa ggttgatggg ttgccctaaa aanccntnaa aggggggtttt tttttanccc 360
ccccgnaaan ttttnggccc cggagggggg ccccaaaaaa naaaanannnn ttaantgggn 420
ggnnaaaaaa tntttnnnng nggggggggt nnnncttttt tancccnggg ggggngnaan 480
aantttcnnt nccancccc ccngggnaaa aaaaanaatt ttttngnttt tccccaaggg 540
ggnttttttt annaganggg gnngggggnn ntttttttaa aaggggtttt ttcttncccc 600
cnccttttga aaaaaaaggg gggggggggg
630

```

```

<210> 203
<211> 433
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(433)
<223> n = A,T,C or G

```

```

<400> 203
gggcgaattg gagctccccg cgggtggcggc ccgccggggc aggttggttat tggaaagata 60
tattaagaat ccagttcttg attgcagctg ttattttttt gggaatgctn gaaaaagcag 120
ttttttatag tgaataccaa aacatcagca aactggact gtcaacccaa ggcttattga 180
tatttgcgga gttgatttct gcgattaaga ggacgttggc tcgccttctc gtgatcattg 240
tgagcctggg ctatggcatt gtgaagcctc gtttaggaac agtcatgcac cgggtgatcg 300
gactggggct tctatactta atctttgcag ctggtgaagg ccgtgatgag agtcattggg 360
ggttctaacc atttagctgg tggctcttgat gacattattt taacagntat tgactccatt 420
tttgngnggg gtc
433

```

```

<210> 204
<211> 417
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(417)
<223> n = A,T,C or G

```

```

<400> 204
ccgcggtggc ggccgcccgg gcaggtacta ttaaattgtg caacttggtt aatagaanac 60
ttacaaatct gtntgttcca cagncttcct ggagtggggt gncntcaac cctgcccana 120
nccatanaac acatgctgng gctttaacaa tccaagtntg gaaggtaacg ctaattagaa 180
aggtcacaaa cctggaaacg gctaccactc antctgattt tcatcactcc acaactgaac 240
aatgggggaa aagagactaa tggacagtnn ttaatgtgnc acttttgaaa tacaagaacc 300
acaaacagga cncctactaa gagacagagg ttacgatgtt accagangcc atcaatagat 360
nccacactac tntaccantt gatttatcag aatnaacatt aattttggat ttaaaaaa 417

```

```

<210> 205
<211> 252
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(252)
<223> n = A,T,C or G

```

```

<400> 205
aggtacctgt gtgaccaatt ggtagtacat agattcacat ggctttcccc catattgaag 60
atggaatttt tgatcaactg tgacatccaa agcaaatacg agctttattc agcttgcttc 120
tttttaaatc caaaattaat gtttattctg ataaatcaag tggagagta gtgtgggac 180
tattgatggc cntnggtaac atctaaccctc tgtctcttag taagtgtcct gtttgagggt 240
cttgatttc aa 252

```

```

<210> 206
<211> 291
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

```

```

<400> 206
cgggcaggta cctgtgttat gcctgtgctc cagcagctna ttgcctcccg natgaactct 60
tctaggtttg gaaattccac tttaaatatg aggaaatgtc tgctcatgta gatgatatga 120
cttgccctag aacacaaatc tagaaaatgc agcaaccaga attttaccca agtttggtga 180
acaccgaaat ctancctctt cccatgactg gccccctctc tctgagcagt aatagtgagc 240
attgctggcc accagggcca cccatnctta ctagggtctc tggccctac t 291

```

```

<210> 207
<211> 506
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(506)
<223> n = A,T,C or G

```

```

<400> 207
atanggcgaa ttggagcten ccgcggtggc ggcccgagggt agctgggagc ccaactgcctg 60
ctgccacctc caactccggc cccctcacca tgcactnnct ggacgagcng ctgcacctga 120
agctgagtat caccaagctc cgggcgggcaa gagagaagcg ggagaggacg ctgggtgtgg 180
tccggccccg tgctctgcac agggagctgg gcctggtgga tgacagcccc acacctggct 240
ctncaggctc cccgccctca ggcttcctgc tgaactccaa gttccccgag aaggtggagg 300
gacgcttttc aagcagcccc tctcgtggac ctacgctgtg caccaccatc tgggctggac 360
tcccccaatg gcagcagctn nctttcccc gagcgccagg gcaacgggga cctgcttcag 420

```

tgcccagtgc cttggacttc agccactgcg ctatttggat ggngtcccaa cttctttcan 480
 ttttcttg ccttcgnttc cggggg 506

<210> 208
 <211> 197
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(197)
 <223> n = A,T,C or G

<400> 208
 nggcgaattg gagctccccg cgggtggcggc cgagggtacac agaaaagcgg ttaccagcac 60
 gggactctgg gttcctgtcc tacctcttgc acttgggcaa aggacttaac ctnccttatgc 120
 ctctgttgct ttgtataaaa tagggataat tatggtaata ccacagtttg ttttgatgat 180
 taagagttga tacatat 197

<210> 209
 <211> 165
 <212> DNA
 <213> Homo sapiens

<400> 209
 atatgtatca actcttaatc atcaaaacaa actgtggtat taccataatt atccctatatt 60
 tatacaaagc aacagaggca taaggagggt aagtcctttg cccaagtgc agaggttagga 120
 caggaaccca gaggcccgct ctggtaaccg cttttctgtg tacct 165

<210> 210
 <211> 416
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(416)
 <223> n = A,T,C or G

<400> 210
 gggcgaattg gagctccccg cgggtggcggc cgagggtactc tatgttggtt tttattgtgt 60
 gaaattttat ttactaata atatttntaa tatattttta ctaattntca taaattaaga 120
 gtattgtatc caaagcagcc agaattattg atgtgggtcat aaaatangtt tccaaatttt 180
 gtctgaataa ctaggattag aaagaagtaa ctaaaaaatg gtttggacat tcaaattttg 240
 atagaaataa aattttattt cataagtcaa tcctaacact tgagcttcat gtaaattttc 300
 caaagtcatt catattttga tcattactgt cggaccaca aatatttgga aatttttttt 360
 aaattaaaaa tgttcccact taattgcttt gagctcgcta tgagttcctg gaatat 416

<210> 211
 <211> 273
 <212> DNA
 <213> Homo sapiens

<400> 211
 cgggcaggta ctcccttttg atattatact gatgaatatt tgtaggtgtt tcactataag 60
 gaacagctaa ggaataattt taataaaagt gaaccagaac aaatcactca tttaaaaagt 120
 aattcagaag aacagtgttg catgatcaga cttctaattg aatagcgtaa caacagtgtt 180
 tgtaattata gatttgcttg gacaaaatat tccaggaact catagcgagc tcaaagcaat 240
 taagtgggaa catttttaat ttaaaaaaaa ttt 273

<210> 212

<211> 271
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(271)
 <223> n = A,T,C or G

<400> 212
 cgggcaggta cacacgatat accaggccct gaatcactta cggatgttat ctataaaatt 60
 caaacgttcc aacaagaggg gtattatattt cccatttttc tgatgaagaa actgaggcctt 120
 tggagtatta ggtgtaactt tccaagctc ttacagttaa taagtattag agctggcctt 180
 caaacccagg tgtctactcc aaaggactgt gaaaggatga agatgatngt gatcgtaaca 240
 aatggtggta acaataaaaa caatgggatg t 271

<210> 213
 <211> 308
 <212> DNA
 <213> Homo sapiens

<400> 213
 ttagggcgaa ttggagctcc cgcggtggc ggccgcccgg gcacgggtact gaataattca 60
 agaaattgtt ctcattgtat cttcttttga tgctggcagt attattttat taaaacaatt 120
 taatactgga tgtagaacaa ttcagctgta aaatgctgag aaaaatcttt tatattcact 180
 ctattcctcc cgtgagatgt aagagtgttc aactgttttc aacgtcagtt aaaactactc 240
 tggcccataa gcataaatat gcaaggcaat acagatcatg tgacagtttg cattcttggc 300
 ttgtacct 308

<210> 214
 <211> 273
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(273)
 <223> n = A,T,C or G

<400> 214
 aggnncaagc caagaatgca aactgtcaca tgatctgtat tgccttgcat atttatgctt 60
 atgggccaga gtagttttta ctgacgttga aaacagttga acactcttac atctcacggg 120
 aggaatagag tgaatataaa agatttttct cagcatttta cagctgaatt gttctacatc 180
 cagtattaaa ttgttttaaat aaaataatac tgccagcatc caaagaagat ccatgagAAC 240
 aatttctgaa ttattcaagt acctgncggg gcg 273

<210> 215
 <211> 327
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(327)
 <223> n = A,T,C or G

<400> 215
 ccgcggtggc ggccgcccgg ncagggtgac tcttcaccca tattataaaa tataatocaa 60
 gccagattag tcaacatcca taagatgaat ccaagctgaa ctgggcctan attattgagt 120
 tcagggttga tcacatccct atttattaat aaacttagga aagaaggcct tacagaccat 180
 cagttagctg gagctaataa aacctacact tctaaagttc ggcctagaat caatgtggcc 240

ttaaaagnct ggaaaagaag caggaaaaga acagtnntct tcaataattt gtccaccctg 300
tcccttggag aaaattttaag aatttgg 327

<210> 216
<211> 340
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(340)
<223> n = A,T,C or G

<400> 216
aggnntactt ttagaataat tnatatctga taaattgaat acatcaggat ttgatgtatt 60
aagagcaatt tcaaaagata ataaaaataa gctatagcat atgtntctgaa aactatattac 120
aataccattt aaatatttta ttcatatcta tccgaatatt gaccaggaca ctaatgccac 180
actgcagagt taataatctg tgcattttct ttaccgtaat ggacagagta tgctttctta 240
gctgcctgat tcacatttct ctaaaaatgc tttatcgggt aaagctttca accagcttaa 300
aaataatgcc tctcccatgt ctccatgagt ggaaaaaaag 340

<210> 217
<211> 506
<212> DNA
<213> Homo sapiens

<400> 217
agggtactaa agaagaataa aaatttccac tgatgattaa aaaaaatact tccataatat 60
cagcagctaa taattgcaaa aaattttaaga aaccattaaa agtttagcact aaataatctt 120
taaaaatcac aaaaatgtgc acttcaaata ttatgccaga aattttgtcc aaatattcat 180
gttcagttaa cagagacaca tagttttctt gatttgaaac tgttctgagg acttgagaaa 240
ctagagaaaa caagaaaata gcagccccac aaatttaaaa gctatcatct ctaccattag 300
catataacca tccaaaaatc tgtggaatgt ttagatttac tcatgaatga tgctcattcg 360
tagaaatatt ttgaacacca gtagtgctat caaggcccag taatgttcca agataagatt 420
gttctctagg atctagcatt tgttcaggtc gaactgggtg aactatattt gcaggttgag 480
gagtaagagt tatttttcca gaaaag 506

<210> 218
<211> 470
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(470)
<223> n = A,T,C or G

<400> 218
cgggcaggta cctgtgttat gcctgtgctc cagcagctca ttgcctcccg catgaactct 60
tctaggtttg gaaattccac tttaaataatg aggaaatgtc tgctcatgta gatgatatga 120
cttgccctag aacacaaatc tagaaaatgc agcaaccaga attttaccce agtttggtga 180
acaccgaaat ctagcctctt cccatgactg gccccctctc tctgagcagt aatagtgagc 240
attgctggcc accagggccca cccatcctta ctagggtccc tggncctac tgcacaaaat 300
tctgttattt gggattcaga cctctggaaa aacaaaaatg gagtttctag agttcaattg 360
tgccaaaaga caattgtcat cacatctcct cttggagaag ggaacatgtc aaggttgttt 420
gtgttcaggc aagcangagt ttccctaact cgtggggaaa agcaactgca 470

<210> 219
<211> 683
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(683)

<223> n = A,T,C or G

<400> 219

```

aaaaacccc aagtnccttn ttgngcgngn gngntntccg natntncccn tntnccctct 60
atntctntcg ntccctcaag anantctntn tnatnggtna ataaaccgcg gggttntncc 120
ttttcganaa aattgcttga ntngngnnaa cgcgngtttn gngngngngg ggngnccaaa 180
tcccccaatt aaatnaaagn tncnaccctt ccccaagggg ngttttatna ttgngngnga 240
ggggggggnt tattcccttt tttcnttacc cttaaactct naaggggggg gaaccttttt 300
ttttttgcng ggnntttttc cgaaaaaaag ccccgngaaa gaagggggnc ngttttttct 360
nttnncaaaa aataatttnc nagttggnga aaaaaaaaaa ttctnnaact tctnaaaaaa 420
tttaaatttt ttnaaccctt tgggncntt ggggttnttt aaagggcgaa gngaaaaaat 480
aatttngggg naagantttt gggaaannct ccncctttt aacccaaang nnaatttgg 540
ggnaatttna agggggggaa anttgggttt tnttacnaaa ttnggggntg ggggggtggg 600
gattaaattt gngcccaaatt nccggggggg gggggtttaa agngttcccc cgggagggat 660
taaanaccgg ggtntccggg ggg                                     683

```

<210> 220

<211> 604

<212> DNA

<213> Homo sapiens

<400> 220

```

ccgggcaggt actcatctga tgacaaaatc tttcaaacag aaacaaaaca atatatggac 60
cagcccaaag tttatcagtc ggaagccaag acgatgttac agaatgtatc tgctgaagta 120
tgtgttccag taactctggt tccagttcag atgcctgaca ctccgagtga cctagtgcgt 180
catactacca cactcccacc atcttctcat gagattctgt caccacagcc acagtcaact 240
gattatccac gagcagcgga ttttagcttt ctggaaaaat atactcttac tctcaacct 300
gcaaataatag ttcacccagt tcgacctgaa caaatgctag atcctagaga acaatcttat 360
cttggacat tactgggcct tgatagcact actggtgttc aaaatatttc tacgaatgag 420
catcattcat gagtaaactt aaacattcca cagatttttg gatggttata tgctaattgg 480
agagatgata gctttttaa tttgtggggt gctattttct tgttttctct agtttctcaa 540
gtcctcagaa cagtttcaaa tcaagaaaac tatgtggtct ctgtttactg gacatgaata 600
tttg                                     604

```

<210> 221

<211> 511

<212> DNA

<213> Homo sapiens

<400> 221

```

aggtgactaa agaagaataa aaatttccac tgatgattaa aaaaataact ccataatatt 60
agcagctaata aattgcaaaa aatttaagaa accattaaaa gtttagcacta aataatcttt 120
aaaaatcaca aaaatgtgca cttcaaatat tatgccagaa attttgtcca aatattcatg 180
ttcagtaaac agagacacat agttttcttg atttgaaact gttctgagga cttgagaaac 240
tagagaaaac aagaaaatag cagccccaca aatttaaaaag ctatcatctc taccattagc 300
atataaccat ccaaaaatct gtggaatggt tagatttact catgaatgat gctcattcgt 360
agaaaatatt tgaacaccag tagtgctatc aaggcccagt aatgttccaa gataagattg 420
ttctctagga tctagcattt gttcagggtc aactgggtga actatatttg caggttgagg 480
agtaagagta tatttttcca gaaaagctaa a                                     511

```

<210> 222

<211> 152

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(152)

<223> n = A,T,C or G

<400> 222

```

gcggcncgag ngtaccattt ctaggcttct taaagcggac aggatatgca catgtctgtc 60
ctccataaccg tgttcattat gttctaaaag ttggatccca tcagtttggt ttatagaatg 120
aagacaggtg tgtgtgtgtg tgtgtgtgtg tg 152

```

<210> 223

<211> 333

<212> DNA

<213> Homo sapiens

<400> 223

```

cgggcagatg catacataga ggtatggttg aaaaagatga acagttgtag ataccagga 60
tatcagatgc aggaacccaa gcattggcca atgagactgc agagctggg tcacagtga 120
aattatttgc aaaggctttg aaagtctctc tctctctctc tctctctctc tctctctgac 180
acacacacac acacacacac acacacacac acacctgtct tcattctata aaacaaactg 240
atgggatcca acttttagaa cataatgaac acggtatgga ggacagacat gtgcatatcc 300
tgtccgcttt aagaagccta gaaatgggta cct 333

```

<210> 224

<211> 692

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(692)

<223> n = A,T,C or G

<400> 224

```

aggtacagag agttccctta tgccccacc cactngttaa aaatgcgccg tcgggatcat 60
tacgtcctgc attggtgtgg gtgtttgtta cagttgacag gccagtgtag acatatgatt 120
attagcttag gtccgcagct cacacgaggg ttctgtcccg tgctgtcctc tctgtgggtt 180
tggacaaatg tccgtgccgt gcacccaccg ctgtgtatca ccganaaagc cgccgccctg 240
gaaatcctct atgccccacc tgtttaccct gnaccctccc gnannaactn tgacanccac 300
tgatnctttg actgnctcat ttggcatggt ttaaaatttt atacagggng cagctgtatt 360
ctatgtcttn ttattaatgt cttatntag aacatgtgtn atgttttcaa gatttactcc 420
tggactttna gnccagtcct ttacttgnt gnatggcatt ntgctatgag tatatgacga 480
tgattggatg ccttccgnta tcgnatagac actcaanggg agtgggagag agtcttggcc 540
ttacgggatt ctttgtacct gccccgggcg gnccgntntt agaactagtn ggatcccccg 600
gggctgcaan naatttgat attnaaagct ttattcgata cccgttcgac cttngaaggg 660
gggggncccg ggaacccan nttttgttc cc 692

```

<210> 225

<211> 300

<212> DNA

<213> Homo sapiens

<400> 225

```

cgggcaggtg caagaatgcc gtaagggcag actctctccc actcccactg agtgctatcg 60
atagcggaag gcatcaatca tcgtcatata ctcatagcag aatgccatac aacaagtaaa 120
aggactggac tgaaagtcca ggagtaaadc ttgaaaacat gacacatgtt ctagaataag 180
acattaataa gaagacatag aatacagctg cacctgtata aaattttaaa acatgccaaa 240
tgagacagtc aaaggatcag tggttgtcag agttcaacgg gaggggtgca gggtaaacag 300

```

<210> 226

<211> 591

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(591)

<223> n = A,T,C or G

<400> 226

```

gggagcttc caaccgcng ggattgggccc gggcccgccc cgggggcccag gggtagacaa 60
agnctcaan ntaccaangc cttttttttt ttttttcctt tggagnaca agaagtcctc 120
cgnttctggt cctcccccca agggacttgg gaagtttgcc angggggggc cgttgaatct 180
tcnggggntt cacttgcnaa agccttnttg ccttcccggg gggttcattg ccaattctcc 240
tggccttaaa agcccttcc ccgnaaagt aagncttggg gnnacctaac caaggggtng 300
gcccccgnt cnaaacccct tcggggggccc cggctttntt taaaaaaaac cttaaggngg 360
gggaattccc ccccccggg gggncttttg caaagngaaa aaattttccc ggaatttnat 420
ttnnaaaagg cccttttaat ttncggaatt tancccggg gtnccggnaa cccctttcc 480
gggaaggggg gggggggggg ggncccccg ggggtnaacc ccccaaaggc nttttttttt 540
tgggtttttc cccccctttt tttnaaaggt ngggaanggg ggggttttna a 591

```

<210> 227

<211> 112

<212> DNA

<213> Homo sapiens

<400> 227

```

atagggcgaa ttggagctcc ccgcggtggc ggccgaggta cacagaaaag cggttaccag 60
cacaggactc tgggttcctg tcctacctct tgcaactggg caaaggactt aa 112

```

<210> 228

<211> 521

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(521)

<223> n = A,T,C or G

<400> 228

```

gcgaattgga gctcnccgcg gtggcgggccc gcccgggcag gtacagactc tctcccatgc 60
tggaattaaac ttcttaaata cttggaacat ctgggccagg ccttcagtgt cctcctnggc 120
ngggatggca aagtagactg ctggggcaag atgacctcc agctgcacc gaggtccatc 180
caccaggaag gtatataaga ccttaccctt tgggttatag gtccggtgga taaataagat 240
ctcaggggaa atggtcaaag aacttttgca taaagcagct ctggtagtgt aaggtatcta 300
actgggcagt cttgttaacc tgggtgcagc gcatagggtg gcttgagtcc ttaatcagga 360
gccattcag cattgtcagg gccatgggag agatgagagc tgtccaaatg ccaaggtcaa 420
aatactttct ttgcagggca gctgaccacg gggctttgag tctttcaagc atcaaataaa 480
gttgaggctg gaggctagac aatcattccc agatcttttt t 521

```

<210> 229

<211> 539

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(539)

<223> n = A,T,C or G

<400> 229

```

aggtgcgacg gagcctggct gtgggcccac ctttggaaaa aagatctggg aatgattgtc 60

```

```

tagcctccag cctcaactta cttgatgctt gagagactca aagccccgtg gtcagctgcc 120
ctgcaaagaa agtattttga ccttggcatt tggacagctc tcattctctc catggccctg 180
acaatgctga atgggctcct gattaaggac tcaagccac ctatgctgct gcaccagggt 240
aacaagactg cccagttaga taccttcaac taccagagct gctttatgca aagtgtcttt 300
gaccatttcc ctgagatctt atttatccac cggacctata acccaagggg taaggcttta 360
tataccttcc tggatggatgg acctcgggtg cagctggagg gtcattcttg ccgagcagtc 420
tactttgcca tccctgccaa ggagagacact gaaggcctgg cccagatgtt ccaagtattt 480
aagaagttta atccagcatg ggagagaagt ctgtaccttg cccgggcngn ccgccaccg 539

```

<210> 230

<211> 214

<212> DNA

<213> Homo sapiens

<400> 230

```

ccgcgggtggc ggccgaggtg cattttctct gctgcaaccc aggatttggg cttatgatca 60
ggaggaatgg tgattccata ttcccagcct ttctcatcca ccactcgatt tatgtcataa 120
gaccatgcat catcttccca ttcccaacct ggaggacaag tcaactcgct ggggtgatgt 180
gctttatcgc cgttcgcac cgtgtagggt tcct 214

```

<210> 231

<211> 207

<212> DNA

<213> Homo sapiens

<400> 231

```

aggacaccta cacggatgcg aacggcgata aagcagcatc acccagcgag ttgacttgtc 60
ctccaggttg ggaatgggaa gatgatgcat ggtcttatga cataaatcga gtgggtggatg 120
agaaaggctg ggaatatgga atcaccattc ctcctgatca taagcccaaa tcctgggttg 180
cagcagagaa aatgtacctc ggccgcc 207

```

<210> 232

<211> 490

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(490)

<223> n = A,T,C or G

<400> 232

```

nccacgcgtc cgagctcgcc gccaaacctg aaccgatgcc cccgcaggtg ccggagcccg 60
ctggggcagg cagcgcgac cctctaccag ctggtgactg ggtcgctgtc ccagacagc 120
gtggacgatg aatttgaatt gtccaccgtg tgcaccggc ctgaggtctt ggagcagctg 180
caggagcaaa ccaaattcac gcgcaaggag ttgcaggctc tgtaccgggg cttcaagaac 240
gaatgtccca gcggaattgt caatgaggag aacttcaagc agatttactc ccagttcttt 300
cctcaaggag actccagcac ctatgccact tttctcttca atgcctttga caccaacct 360
gatggctcgg tcagttttga ggactttgtg gctggtttgt ccgtgattct tcggggaact 420
gtagatgaca ggcttaattg ggccttcaac ctgtatgacc ttaacaaagg acggctgcat 480
taccaaggag 490

```

<210> 233

<211> 218

<212> DNA

<213> Homo sapiens

<400> 233

```

ccgcgggtggc ggccgaggac acctacacgg atgcgaacgg cgataaagca gcatcgccca 60
gcgagttgac ttgtcctcca ggttgggaat ggggaagatga tgcatggtct tatgacataa 120
atcgagtggg ggatgagaaa ggctgggaat atggaatcac cattcctcct gatcataagc 180

```

cctaaatcctg ggttgacgca gagaaaatgt acctcggc

218

<210> 234

<211> 242

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(242)

<223> n = A,T,C or G

<400> 234

ccgcggtggc ggccggcttc cagtcgcccc cggggtagca ggctctcggt ctgatagact 60
 tcacagtgga actccgngtg acctgcatct gntcagtgca gcaagcttct ttcaggatca 120
 actatccact ctccctccca ttcccagcct tttggaggca gaaaaaattc cctcttgagt 180
 tttatttttc ccgtgacatc agaaaactta tgacgtccta ctaatccana agtacctgnc 240
 cg 242

<210> 235

<211> 261

<212> DNA

<213> Homo sapiens

<400> 235

tagggcgaat tggagctccc cgcggtggcg gccggcttcc agtcgcccc gggttatgcg 60
 gctctcggtc tgatagactt catcagtgaa ctccgtgtga cctgcatctg cctcagtcag 120
 caagcttctt tcaggatcaa ctatccactc tccttcccat tcccagcctt ttggaggcag 180
 aaaaaattcc ctcttgagtt ttatttttcc cgtgacatca gaaaacttat gacgtcctac 240
 taatccagaa gtacctgccc g 261

<210> 236

<211> 226

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(226)

<223> n = A,T,C or G

<400> 236

cgggcaggta cttctggatt agtaggacgt cataagtttt ctgatgtcac gggaaaaata 60
 aaactcanga gggaaatttt tctgcctcca aaaggctggg aatgggaagg agagtggata 120
 gttgatcctg aaagaagctt gctgactgag gcagatgcag gtcacacgga gttcactgat 180
 gaagtctatc agaacgagag ccgctncccc gggggcgact ggaagc 226

<210> 237

<211> 810

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(810)

<223> n = A,T,C or G

<400> 237

tttttttttn ttgatancctt acccatgctc caggagncng accgtccaan atcttaanac 60
 cncactttca accttnaaga annnggggaa aaaccanann aagggggctt gggcgatgaa 120
 ccaccgggag ancacncacn cacacatnac gnaaggngtc ccgnaaccgt gctganttcc 180

```

ggaattnata ggggcctttt gtgattgaat tactggtaca nttttgcca ttgggccag 240
ngccgccng gggggangtg ntcaatctc caacctttag gntttattgc cttgaagggg 300
ggaaggnccg nngggcaccg ggnaagnngg ataaaacctt ttgggttcaa attggggccc 360
tttttgaatt tnaataant naagtngcct ttaanaaaaa caacaattta naaanaacag 420
ggntttttt tggnaattt actttcaana aantaattta ataagaaatt tggggttncc 480
gccntttttt ttaagaattt tgggggcccc taaaaaaant tcaanttnaa tcccttttaa 540
aaaaacnaaa acnaagatcc caagggngnc cacctccttt tttnttngg gnccccccct 600
ttaccgcccc aagggggnaa acccaaagga aagcccgccc aaatTTTTTT taaaaaaaaa 660
naaaaaaaaa ttncccaaaa tttgnttnnt ttttttnaa agggggnccc aaaaatttat 720
ttnaancccc naaagggngg gngggcccn aaanggggac ccnaaaggnt acccctttt 780
naaaagaaag ggcattttna aattttgggg 810

```

```

<210> 238
<211> 200
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(200)
<223> n = A,T,C or G

```

```

<400> 238
aggtacattt tctctgctgc aaccaggat ttgggcttat gatcaggagg aatggtgatt 60
ccatattccc agcctttctc atccaccact cgannatgt cagnagacca tgcacatct 120
tccattccc aacctggagg acaaagtcaa ctgctgggt gatgctgctt tatcgccgtt 180
cgcatccgtg taggtgtcct 200

```

```

<210> 239
<211> 341
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(341)
<223> n = A,T,C or G

```

```

<400> 239
aggtacattt tctctgctgc aaccaggat ttgggcttat gatcaggagg aatggtgatt 60
ccatattccc agcctttctc atccaccact cgatttatgt cataagacca tgcacatct 120
tccattccc aacctgggag gnacaagtca actcgctggg tgatgctgct ttatcgccgt 180
tgcacncg tgtagggtgt tcctcgccg ccaccgccc gtgggaagct cccaatttcg 240
ccctatantg gaggtcggtt ttacgcgcg gctcacctgg ccgtcgtttt accaacgtcg 300
tgactggggg aaaaaccctg gcggtttacc caaccttaa t 341

```

```

<210> 240
<211> 234
<212> DNA
<213> Homo sapiens

```

```

<400> 240
ataggcgaa ttggagctcc ccgcggtggc ggccgaggac acctacacgg atgcgaacgg 60
cgataaagca gcatcaccca gcgagttgac ttgtcctcca ggttggaat gggaagatga 120
tgcattgctt tatgacataa atcgagtggg ggatgagaaa ggctgggaat atggaatcac 180
cattcctcct gatcataagc ccaaactcct gggtgcagca gagaaaatgt acct 234

```

```

<210> 241
<211> 199
<212> DNA
<213> Homo sapiens

```

<220>
 <221> misc_feature
 <222> (1)...(199)
 <223> n = A,T,C or G

<400> 241
 aggtacattt tctctgctgc aaccangat ttgggcttat gatcaggagg aatggtgatt 60
 ccatattccc agcctttctc atccaccact cgatttatgt cataagacca tgcacatct 120
 tccattccc aacctggagg acaagtcaac tcgctgggtg atgctgcttt atcgccgttc 180
 gcatccgtgt aggtgtcct 199

<210> 242
 <211> 199
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(199)
 <223> n = A,T,C or G

<400> 242
 aggtacattt tctctgctgc aaccaggat ttgggcttat gatcaggagg aatggtgatt 60
 ccatattccc agnctttctc atccaccact cgatttatgt cataagacca tgcacatct 120
 tccattccc aacctggagg acaagtcaac tcgctgggtg atgctgcttt atcgccgttc 180
 gcatccgtgt aggtgtcct 199

<210> 243
 <211> 223
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(223)
 <223> n = A,T,C or G

<400> 243
 gagctcccc gcggtggcgg ccgagggtac attttctctg ctgcaacca ggatttgggc 60
 ttatgatcag gaggaatggt gattccatat tccagcctt tctcatccac cactcgattt 120
 atgtnataag accatgcatc atcttcccat tcccaacctg gaggacaagt caactcgctg 180
 ggtgatgctg ctttatcgcc gttcgcatcc gtgtaggtgt cct 223

<210> 244
 <211> 199
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(199)
 <223> n = A,T,C or G

<400> 244
 aggacaccta cacggatgcg aacggcgata aagcagcatc acccagcgag ttgacttgct 60
 ctccaggttg ggaatgggaa gatgatgcat ggtcttatga cataaatcga gtggtggatg 120
 agaaaggctg ggaatatgga atcaccattc ctntgatca taagcccaaa tcctgggttg 180
 cagcaaagaa aatgtacct 199

<210> 245

<211> 232
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(232)
 <223> n = A,T,C or G

<400> 245
 agggcgaatt ggagctcccc gcggtggcgg ccgaggacac ctacacggat gcgaacggcg 60
 ataaagcagc atcacccanc gagttgactt gtcctccagg ttgggaatgg gaagatgatg 120
 catggtctta tgacataaat cgagtgggtg atgagaaagg ctgggaatat ggaatcacca 180
 ttctctctga tcataagccc aaatcctggg ttgcagcaga gaaaatgtac ct 232

<210> 246
 <211> 200
 <212> DNA
 <213> Homo sapiens

<400> 246
 aggtacattt tctctgctgc aaccagggat ttgggcttat gatcaggagg aatggtggat 60
 tccatattcc cagcctttct catccaccac tcgatttatg tcataagacc atgcatcatc 120
 ttcccattcc caacctggag gacaagtcaa ctgcgtgggt gatgctgctt tatcgccgtt 180
 cgcacccgtg taggtgtcct 200

<210> 247
 <211> 235
 <212> DNA
 <213> Homo sapiens

<400> 247
 cttagggcga attggagctc cccgcggtgg cggccgagga cacctacacg gatgcgaacg 60
 gcgataaagc agcatcaccc agcgagtga cttgtcctcc aggttgggaa tgggaagatg 120
 atgcatggtc ttatgacata aatcgagtgg tggatgagaa aggctgggaa tatggaatca 180
 ccattcctcc tgatcataag cccaaatcct gggttgcagc agagaaaatg tacct 235

<210> 248
 <211> 200
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(200)
 <223> n = A,T,C or G

<400> 248
 aggacaccta cacggatgcg aacggcgata aagcagcatc acccagcgag ttgacttgtc 60
 ctccangttg ggaaatggga agatgatgca tggctttatg acataaatcg agtgggtggat 120
 gagaaaggct gggaatatgg aatcaccatt cctcctgatc ataagcccaa atcctggggt 180
 gcagcagaga aaatgtacct 200

<210> 249
 <211> 199
 <212> DNA
 <213> Homo sapiens

<400> 249
 aggtacattt tctctgctgc aaccagggat ttgggcttat gatcaggagg aatggtgatt 60
 ccatattccc agcctttctc atccaccact cgatttatgt cataagacca tgcacatct 120

tccattccc aacctggagg acaagtcaac tcgctgggtg atgctgcttt atcgccgttc 180
gcacccgtgt aggtgtcct 199

<210> 250
<211> 209
<212> DNA
<213> Homo sapiens

<400> 250
aggacaccta cacggatgcg aacggcgata aagcagcatc acccagcgag ttgacttgct 60
ctccaggttg ggaatgggaa gatgatgcat ggtcttatga cataaatcga gtgggtggatg 120
agaaaggctg ggaatatgga atcaccattc ctcctgatca taagcccaaa tcctgggttg 180
cagcagagaa aatgtacctc ggccgccac 209

<210> 251
<211> 390
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(390)
<223> n = A,T,C or G

<400> 251
cgggcaggtta ctagaccagt ggagaatttg acaccttttc tttttgtaaa agtttatggt 60
attataccga tagaccaaaa cagcatgtgt aagaggcant atctgcacta attctcaaca 120
tgctaaacat taactacaat tcaactgttg gagaatattt ctngtcacag caaaaaanaca 180
tttctttttt cttggnaaca cagntttttaa atanaatttt taanaaaatn ggtaaaaagg 240
ttnttttttag ggaattggtt gtntcanttc aatgtctaag aataaatttt ttntttnaaa 300
attaaaaaac tttttaaaag nngggggctt cccaantttt gggggggncn nacaaaaatt 360
tnnnananaa aaaaaaaaaa nttttttttt 390

<210> 252
<211> 236
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(236)
<223> n = A,T,C or G

<400> 252
agggcgaatt ggagctcccc ggggtggcgg ccgaggacac ctacacggat gcgaacggcg 60
ataaagcagc atcaccagc gagttgactt gtcctccagg ttgggaatgg gaagatgatg 120
catggtctta tgacataaat cgagtgggtg atganaaagg ctgggaatat ggaatcacca 180
ttcctcctga tcataagccc aaatcctggg ttgcagcaga gaaaatgtac ctcggc 236

<210> 253
<211> 156
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(156)
<223> n = A,T,C or G

<400> 253
attggagctc cccgcgggtg cgcccgagg accanaatcc acaaccccca gtcttttgca 60

gttcctgtga tatgcatcat gatgttgaaa cagtcccaaa ttccttctgg cttctgtcag 120
 tgccgtgtaa agtgntgatg agaganattt atttat 156

<210> 254
 <211> 240
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(240)
 <223> n = A,T,C or G

<400> 254
 ctatagggcg aattggagct cncgcgggtg gcggccgagg acacctacac ggatgcgaac 60
 ggcgataaag cagcatcacc cagcgagttg acttgctctc caggttggga atgggaagat 120
 gatgcatggt cttatgacat aaatcgagtg gtggatgaga aaggctggga atatggaatc 180
 accattcctc ctgatcataa gcccaaatcc tgggttgtag caagagaaaa tgtacctcgg 240

<210> 255
 <211> 243
 <212> DNA
 <213> Homo sapiens

<400> 255
 cccttagcgt ggtcgcggcc cgaggtacta ttagaaacaa aattgagcaa gttaagttaa 60
 aagtttgctg actttgtatc aacactatag aagatgagcc accttgtaa tttggaatat 120
 ttgctctgaa aagaacatgt tagttacacc ttaatggtgt taatggaggt ggggattgag 180
 aaaagtgttc acattagtgt tggaatgtag gtaattgtcc tgcccgggcg gccgctcgaa 240
 agg 243

<210> 256
 <211> 355
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(355)
 <223> n = A,T,C or G

<400> 256
 attggagctc cccgcgggtg cggcgcgccg ggcaggtatt cgggtgcttcc caacacctcc 60
 ttattggaaa acagccaagg agatggtggc taactggagg catcaccag cagtgggtgga 120
 gcagtggagc aaggtcattt gtgcactcac ttccagattg ctacgcttta catatggtcc 180
 ttcatttcct gcatttaaag ttcccgatga agatgccagt ctgatccctc cagaaatgga 240
 taatgagtgt gntgcacang acatggtttc gctttttaca catgttaagt aatnctgtgg 300
 atttgagtaa cccagctatt ataagctcta ctcccaaatt tcaggaacag ttctt 355

<210> 257
 <211> 293
 <212> DNA
 <213> Homo sapiens

<400> 257
 gaggtacaaa ttccaagcc tgtttattaa ccaattttac ccaagaccag gaactcctgc 60
 tgcaaaaatg gaacaagttc cagcacaagt gattggtgaa agacaacaag tgtagtaaac 120
 agaagaatct tttgattcca agttttatgt tgcacacaat caattctatg agcagggtttt 180
 agtgccaaag aacctgcgt tcattgggaa gatggttgaa gtggacatct atgaatcagg 240
 caaacatttt atgaaagggc agccagtatc tgatgcaaaa gtgtacctgc ccg 293

<210> 258
 <211> 451
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(451)
 <223> n = A,T,C or G

<400> 258
 acttagggcg aattggagct ccccgcggtg gcgggccgag gtacatccca gaatcgtttt 60
 ggatctgtta agggttttta ttagaatgat taaataggct tttgcagcat taactttaca 120
 gtagttacca gaaaagacta tgctacaaga accaaaattg aagtaagaag aaaaagactg 180
 aaatgatatg attctaaatg aaaaaaatga agaagtggaa tagttttctcc acaggcataa 240
 gaggcaaagc attgtttcag aagtggactg gcacctcacc tgagatactc aagactggca 300
 acatgggtct acattctttg ttaccacaga ttcccttggt tccggagaga ttccctagct 360
 ctaatgacag attttttggg gggtaatgag gctatgagaa gattgaggat ctagggtacct 420
 gcccgggcgg ncgctctaga actaggtgga t 451

<210> 259
 <211> 373
 <212> DNA
 <213> Homo sapiens

<400> 259
 cgggcaggta cctagatcct caatcttctc atagcctcat tccccccaa aaaatctgtc 60
 attagagcta gggaatttct cccggacaca agggaatctg tggttaacaaa gaatgtagac 120
 ccatgttgcc agtcttgagt atctcagggt aggtgccagt ccacttctga aacaatgctt 180
 tgccctttat gcctgtggag aaactattcc acttcttcat ttttttcatt tagaatcata 240
 tcatttcagt ctttttcttc ttacttcaat ttgggttctt gtagcatagt cttttctggt 300
 aactactgta aagttaatgc tgcaaaagcc tatttaatca ttctaataaa aaccttaaca 360
 gatccaaaac gat 373

<210> 260
 <211> 268
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(268)
 <223> n = A,T,C or G

<400> 260
 cgggcaggta ccctccaatg gaaaaggata actccgatat gaggagtccc ccttccttct 60
 nctaaacagt cttataaaaa gcattccaac tttnaacang atgtttggaa catgccaac 120
 tttgttggtg tatcttactg gataaattct cacatttggc ttccaataaa cttttatcaa 180
 ttttaaaaaa aaaaagaata aaaaaaaaaa aaanaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaatgntt tgncaaaaaa aaaaaaaaaa 268

<210> 261
 <211> 222
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(222)
 <223> n = A,T,C or G

```

<400> 261
cgggcaggtg ctggctgttg accaccagac acctgaccgc aaatatcttt tcttgtattc 60
ccatatttct agacaaatga ttttttgtaa gacaataaat ttattcatta tagatatttg 120
cgcctgctct gtttacttga agaaaaaagc acccgtggag aataaagaga cctcattntc 180
caaaaanaaa aaataaaaaa naaaaaaaaa ggnttgtagc tn 222

```

```

<210> 262
<211> 544
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(544)
<223> n = A,T,C or G

```

```

<400> 262
cgggcaggtg cacaacttca acagattttc tgcatatttc tcaccagcac atctgaatga 60
ggctttgngt tttccttgct ctcttgcatt gtnccctttc aactcatggg ccacaggnga 120
ctcttanaga tttatgccaa aattgcatac aattgggttt nngaatanana actggtcaat 180
ttttctgcct atgnggggcta ctttcagttt ngttctnaat naacattttt gactttaana 240
agagcctnca tttgcccctt tnttttttaa ggnttttaaaa natcttttaa caccggggnc 300
tttnannttt tganccccc cctaanaaaa aaaaggaaac ttttaaaaaa gnggggnattg 360
gggnccccc gnaaccnttn tttttgnggg ggagggtttt tttttttatt gggaaaaaaa 420
ttntctntgg gggnntttt aaaaaatttt nnaantttta aaaaannaan attttnnccc 480
nccngcgggg ggggggggtt tttttggnaa naaaatanat tggggngggg gncccccccc 540
cccc 544

```

```

<210> 263
<211> 456
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(456)
<223> n = A,T,C or G

```

```

<400> 263
agggtttttt tttttttttt ttttttttgt ttttttttat aatgatatgc aaatctttta 60
ctttgatgtg tgaaacttnt gctatctcaa attgacagtn tnattntttt cagctatga 120
tcatccgttt aagtaaagt tcccataatt ttganggtcc acnatacaaa aagtgtnttt 180
ntatggggaa agcttaantc cttgggcctg ggattttcca tcatggaaga aaggtcggtc 240
nangggccan aattantnt taaacnttca aaaagntncc cttgctccc gggcgggcn 300
cgctnttaa gcaacntaag gttgngnatc cccctgnggg cttggctaag tgnaaatttc 360
cggattantc canaagcctt tatccgatt acccgncna cccttcgnaa gngngggng 420
nggcncgcgn gtncccccac gcatttttcg gtttcc 456

```

```

<210> 264
<211> 605
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(605)
<223> n = A,T,C or G

```

```

<400> 264
cgggcacggt acaaaagcac cacgtgatta ttgctctaga aaaaactgcgt gaaaaaattc 60

```

```

aaatatnncn accaaggtaa aaaaccacca ccaaanattg cacacgcgga ctaanathtt 120
aaaaagcaag gtncatnggg aatgcttgaa atcaaattct ttaccaccac caggntttnc 180
anattathtt tanacctnga ataattntaa tttctacct tggangggga tnggattgtt 240
aaaatthttc caaaaaaaag ccattggacn tattggagga accggaataa aaaaaatagc 300
tcccatcccc ttnaattatt attttatcng ggattgcccc aacctagggt aggaagnnnc 360
ctnaaaaaaa aaanttaagc cntttctacc aaaaaatacn ttttggttta aaaaaathtt 420
gnctthttta aaaaaggtna ggccccccaa ngaagggaatc cccttnaaaa nattcnancc 480
cccaaatttt tttttnattt naccaaattn aaattcctct cccctttttt ttccttacca 540
ngaattcnan ttnttncntt gngggccctt ttgnnaaaaa annaaaaagg gaaaaaaaaa 600
aaaaa                                         605

```

<210> 265

<211> 487

<212> DNA

<213> Homo sapiens

<400> 265

```

ccgcggtggc ggccgcccgg gcagggtacct ttagtagaga cggggttata tcatgttgcc 60
caggctggtc tcaaactcct gacttcaggc aatccacca cctcggcctc ccaaagtgtc 120
gggattacag gcttgagccg ctgcgcctgg cccaaactga tgtcttatcc ttcttagtgc 180
ctcacaccag atcctgttca gacatgttat aacaaattag tatgagttta ttttgcaca 240
atthttgaca tctatgcata gtttttcaca atacacattt tccttaaagg gtttgaggac 300
cctthttgtg gactgcagac gcttctacag tctgtgactt gtcttctcct tttcctaaag 360
gtggccttga tggctcttta aaattttgat tgaagaacaa cttaccaatt taccagtttg 420
ggttaatttt ggggttaacg ctttttgtac ctgcggcgcct ctagaactag tgggatcccc 480
cgggctg                                         487

```

<210> 266

<211> 335

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(335)

<223> n = A,T,C or G

<400> 266

```

acttagggcg aattggagct ccccgcggtg gcggcgagag tacctgaatg ctaaaactgcc 60
tggctcccag ctttttcatt aaacttttca gggctcttgg ttctttatct gtaaaatgac 120
agagttggac cagttaactt taatggccat ccttttacac cacacaagtt gataaaatht 180
atctgttcag caaagagatt gaacaaaaaa gcacgttagt aatatgaaga caggaaaacn 240
aatgaaagtc taacacataa ctcatattga tttactttat ttntgttaga ttttacactc 300
tgaaaatttc acctcattta gtttgtacct gcccc                                         335

```

<210> 267

<211> 369

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(369)

<223> n = A,T,C or G

<400> 267

```

cgggcaggta ccgntccaaa ctcatcctct tccccaggaa gccctcggcc cccaagaagg 60
gagacagttc tngcntgaag aaactgaaac tggccaccca gctgacccgg gaccggtcat 120
gccggtccgg aacgttntat aatnaaggag aaaagctccg agtcacact tgagtgaagg 180
agnaagnaat tttcaaaagc cttncggctt aggttcttcc cntattgggc ncccgttggc 240
ccaaaccggc ccnnggggct tcttttnggg cnataaccgg gggccannaa aaagggaagnc 300

```

ccaannngga aagnccccgc caanaaaaca anggaattnt ttttgtaaaa aanggaaaaa 360
 aaaaattaa 369

<210> 268
 <211> 593
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(593)
 <223> n = A,T,C or G

<400> 268
 aggtacaaca tgctgattct tttcaacggt ttatcttctt tatttagctt tgttgccaaa 60
 gcttcagcan nttnncgaca agtcttctct atttcaagat ggttctgcat gaaattaact 120
 tcctctatga ccatgtgaga aattttctga aattctccca gttttttaac cggcttcac 180
 tcgttcttgc ctaattttgt cacacttctc ctttgtttcc tggttctctg ctctaaggctc 240
 ttcataattcg cctattgcnt tgctccttca gacttggtta tgaagcntgc agctgcttct 300
 cttcgtcccg agcctgtttc attttaaggc cgnggtnggg ngcncggggn atanaaaagg 360
 ngaaaagaag gggagtcggg cgccgntgc caccaccagg taggtagggg gggnaagaaa 420
 aaaagccata gtatgcccg ntgggctttg cggnacccctg gcccgggggc gggacgctct 480
 angaacctag gtgggattcc ccccgngnc tgcanggaaa tttctaatat cnaagcctta 540
 atncgatacc cgttnacctt cgaagggggg ggcccggtta nccccaaagt ttt 593

<210> 269
 <211> 642
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(642)
 <223> n = A,T,C or G

<400> 269
 aggtacaac ttagaagaaa attggaagat agaaacaaga tagaaaatga aaatattgtc 60
 aagagtttca gatagaaaag gaaaaacaag ctaagacaag tattggagaa gtatagaaga 120
 tagaaaaata taaagccaaa aattggataa aatagcactg aaaaaatgag gaaattattg 180
 gtaaccaatt tatttttaaaa gcccatcaat ttaatttctg gtggtgcaga agttagaagg 240
 taaaagnctt gagaaagatg aggggtgttt accgntagga ccaggaacca atttaggaag 300
 aaatacnttg aaggctagga agggggaagg tttgggttta aaaaaattca ncattcaaaa 360
 anaggcttac ntaaaaaagg gacctnggtg gtaattttta aaaaaaaaaa cttaaagggc 420
 angaagggtc tttngaaag gaggttnaga aaggaaattt ggggaaagg ccctttaaaa 480
 atattaggtg gctttaagtt ttgaaaaaaa tgtngaaagg gacnttttctg taaaccggga 540
 aggttaaatt naaaggaatc aaagaagtaa ttttacccaa actttaatgg ttttttgcca 600
 ttnggacctt ttgnagtta aagaatttat tttttttaaa at 642

<210> 270
 <211> 385
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(385)
 <223> n = A,T,C or G

<400> 270
 ccgcgtggc ggccgcccgc gcaggactt attcttcagg gttactgagt cggcacctat 60
 gacagctaag agagctttct taaagactgn ctcagtgtct tcttggtttt tggcaccttc 120

```

actccactct gccagggaaa tccacaatgg cagacaaacc tgggggtttca ggtgcacaaa 180
ggcttcttca aaaagcatgg ctatgtcagg gctctttgac tcgatcagca cctgcagctt 240
cagctgccac attgtcccag agtctctaaa caattcagtt ccagctactg ccacttccag 300
agcttccctc aggaagttat aacacaagca accgaaacac tcaactgctt gtattggcat 360
tctgacagaa gcttcagttc atgtg                                     385

```

<210> 271

<211> 375

<212> DNA

<213> Homo sapiens

<400> 271

```

ccgcggtggc ggccgcccgg gcagggtactt tagtatgatg agggcaaagc tttcacccgta 60
atgaaaaggc aaatgggagg tctctgataa gttggaatca tcatagcaaa aaaagagata 120
cctaccagaa aatttgcatc aatatctata acctcatttg taaaaaaaaat cattaagttt 180
ataaactatt ttaaaaaataa aacgaatata tatgtaatat gaatcatatg ccaaattata 240
ttctatagtc ataagtgcata ttaataaata catttgattc atgctacaag agaaagaatt 300
gagacaattt cacatttcag aattcctgag tcttatcaga gaaaaacaag tacctcggcc 360
gctctagaac tagtg                                     375

```

<210> 272

<211> 271

<212> DNA

<213> Homo sapiens

<400> 272

```

aggtacacac taagataaag gatgatcttg aagaccttat agttaattgg gatgagagca 60
aaagcattgg tgacattttt ctgaaatatt caaaagattt ggtaaaaacc taccctccct 120
ttgtaaaactt ctttgaaatg agcaaggaaa caattattaa atgtgaaaaa cagaaaccaa 180
gatttcatgc ttttctcaag ataaaccaag caaaaccaga atgtggacgg cagagccttg 240
ttgaacttct tatccgacca gtacctgcc g                                     271

```

<210> 273

<211> 784

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(784)

<223> n = A,T,C or G

<400> 273

```

cnaccttatt agggggggcc gnaaaatatg ggggnaaaac ctacacaacc accgnncggg 60
atgggggaccg tgacaccgna agtgntaacc attggagacc acacacctat acaatattgg 120
gatattgcta gcccaagana tctatacacc ttcgggtngg gggggaccaa tnggccacaa 180
attggggggg gngggccnag gannaaaacc accccaagaa aaaccattat tacattgggg 240
ggattgccgg gggggccact tcnaattaan ggetcttacc ttngtttggg atnngngggg 300
gtnaccacn ccgaaccgaa ccgcnaacca ttntnatcaa attnggggtt atttgggggt 360
accatcccat ttttagcatt ggggcccggc ccttttccca agnnnaanaa ggcgttgng 420
ccnacnaant anccaangga attgggggtt naaaaaattc tttggnatcg ggaggnacnt 480
aattgggant cntnggggtc naantttaag gggggagaaa aaaagnnggn gggggggaca 540
acaaaggant tgggtggnnc ccaatcnaa nnaagggggg gggggcnaag cccncccaa 600
tttgtttggg gggggnaaaa aanttttgn ttccacctt ttgccacct tncgggggg 660
aaggngntnt accnttngga aaaaaancc caccacaaaa aaaaaaaaaa ncccaaaggg 720
gcttnggggt ttngngggg aantaacccc ttttggggnt tggggacccc aaaagggggn 780
aaaa                                     784

```

<210> 274

<211> 913

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(913)

<223> n = A,T,C or G

<400> 274

```

gnggaccgna aaaatgtggg ggaaaagacc ttacncaacc accgaccgng gtgggggggcc 60
ggggncncnc gaaagnggnt taacccaacc ttntntnctt taaaaagcna aaaggggna 120
aaggcaatnt ttcctttttt caatcccca aaagggnaat taattntggg gaacaaaatt 180
nccttggggg gggccgtgtg tgtggggaan aattnacaac aatttaagaa gaaaaattgg 240
ggcctacct tnccttggg tgncttttn aaagggcna gggggggan gggaaaaatt 300
ggggggnccn ccccaaaaga agaancgcc ttgggggaac cnagtgggg gggagccnaa 360
aaaggacca aattnttggg attanttatt gggggngaaa aacanggggt tntcccaag 420
aaggggaaa angggcccca aaaaatttna aacccaaagg gatttgggat taaaaaaaa 480
cccaaanttg ggggttacc aaaccntta ttgggnttg gccccctnt ttttttaan 540
aaanaaaaaa ttnttaaagg gnttncctt tggggttgn aaatttgcca aagccccca 600
aatttgttg tttgnaaatt nnttaaaacc ccaaagggg tttttttaa ttttaacaa 660
atctcttnt tcttngggg ggggcnaaag gggntttct ctttcaaat ttattttatt 720
tnttntttt gcccaaaaaa aaanaaaatt tncccnaat tttggggnt ttttttacc 780
catttatttt gggggattg gccccgccc ccccaaaaag gggngaaaag ggggtttnt 840
tttncctt ttttttttt ttaaaagggg gggggggtt ttttttnaa aaaaaaacc 900
ccaaaaacc cct

```

<210> 275

<211> 760

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(760)

<223> n = A,T,C or G

<400> 275

```

ctntcaactt naaaaanggn gggaaaaaac caaaaaaaca nnaacttggg gggttgaanc 60
cacgggnga ccaccacnc ncccttaccg annngggatt acggaaccg gggatcaatt 120
nccgganata aaaaggtcct tttggcaatt aattaccgga naaaaattnt ccccttnggc 180
ccaaggaccc cncggggng ggggggggaa ttgccccaan ccttcaaggc ntntncttt 240
aaggnnaggc gccgggnacc ncgganaggc gggaataaaa ccnttgacc caccgngna 300
ccngcatagn aattgggncc tcataatcaa accaccgcc taantttncg aaantgggn 360
ccnccccctt taaaaacca aattncctt taacccttg gggaaaaaaa aaggagcggg 420
ngggacctt tccacccaaa ccgcacaaa accaccacn cccaaaggg ggattaggnt 480
gganggaggg naggcaacna aaattgggan ttngggggcc tcctcccnaa accctttccc 540
aaattcnccc cccaaaacc gcccaaagg ggccaaatcc taaanccgc ctncnaagg 600
ggggngnaa cccanccaaa gggagggacg naaggcccc ntctttttg cngggngnn 660
anccnnaaac ccnnaaacc ttttntttg gggggggagg aaaaaaacc nttttaacna 720
aaagaagggn ggggangggn aaccatttt tttttgggg

```

<210> 276

<211> 786

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(786)

<223> n = A,T,C or G

<400> 276

```

ttttttttnt tttattaccg tccccaggat ncgnnccgnc caatatnttg anaccncctt 60
tcaaccttaa nanggggggg naanaccana aaaagcnctg gggngataac cacgggngna 120
cacacacaca cnccttacgan agggatacga naccgggatt aattacggan attaaaaggc 180
ccttatggan attaaatacg ganaaaatat actcttggac cagnacnca cggggngggg 240
ggganaatta caccaacctt taaggnttnt tactttaagg agaaganccg gngaccaccg 300
gaccnccncc ggggnggggac caaggngggg ttganccccc tttttaagg anaaaaata 360
atTTTTttgg gtccnaataa accnccaagc cacctttcca ccacattngg anaaaaagag 420
ggntttnccct ttattaccnt tnncnccncc caaacggggg tttgtttaaa tttnttaaac 480
aangggnttt ggcccnnaan aaattgggct tnttcttaaa tttggcgggc ttcaacaaan 540
naaattgggn nttaaaaagg ganaaaaaan ggnncccaaa ntttccnnaa atttngggan 600
aaaatttggg anaaaagggn gggggtaaaa ccgggttnaa aanaaagggt tgaaagggt 660
naaaaaaac ccgggnncc cttttggggg ttttncccc ggggtttttt ttttcccaa 720
aangnagggg ggggnggggn ccaaaggggc tttttaaaat ttttttttt ttttttttaa 780
aacc 786

```

<210> 277

<211> 795

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(795)

<223> n = A,T,C or G

<400> 277

```

ggcccntttt tttttttttn tgggnctctt acnagcacca ggagacggnc cgtccaanat 60
tttgaagacc gccctttcna ccttaanatg ggggggggna aaccananta aggnnctggg 120
gggatnaacc acgggngnnc acacacncc acatnccgaa aggggntacc gaaaccgtgc 180
tgaatnccga natcataggg gentnttgtt attaattact gnnaacattt tcccattgga 240
ccaagngccn ccgggggggn tgngncaat cctccaaccn ttanggnnta ttgccttang 300
gggaagnncc ggggacaacc ggaaaagg nanttgagga aaaagaatan cattgggacc 360
ggnaccatta aagnggggac caccacccgn accatntttg ggggggaagg ggnctttac 420
ccttnggnaa agngaccac cganaaaatt gggggggtga aanaggngaa agggntttt 480
tccaaacctt ttncaaaant tgggggttat tattgggncc aaaaccacca ccgggaccng 540
ngggantagg ganaaaattt ggaacccgga attggggacc ntntntntt tttccgggg 600
cccaaaaaat aaaaaaaaaa ccccaaaaaa ggggngaacc cttntoctt ttccgggggg 660
nnccntttna aantttggag ggaanaaagg gaattaacca ccnccnccc aaatttggng 720
tnanttgggg anaantaggg aancntttg ggacaaatna attnggaata atnagggggg 780
gacaaagggg ggggt 795

```

<210> 278

<211> 940

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(940)

<223> n = A,T,C or G

<400> 278

```

ttttttttt nttggtntct taccnagcca ccaggagncn gaccgtccaa anattttgac 60
aaacctcaact ttcnacctt aanatnnngg ggggaaanac caaaantaag ggggcttggg 120
ggatnaacca cggggaganc acacacacac acattcgaaa gngnatnca aaccgtgctg 180
aattcngana tcatangggc atttngtnat taattactgg taacattttc ccattgnacc 240
aagagccgcc cgggnggatg tgnncaatcc tccaaccntt anggtttatt ccttnanggg 300
gaaggncgg gggncaccgg nccaccaccg gggggggggc aaggggggnt tgaaccnttt 360
ccaaagngtt tgaanaacc aaaggggaac cgccgggggg taagaaaaaa naattnttgg 420
gntgggggcc tttgccttg aaaggggnaa nagggggaaa ganttaataa naanaacct 480
ttggnnnaat aagaagaana accttttctt tttnaagnng aaaggggaaa aaaattctct 540

```



```

tatntcttnt tattnnnccc ccccccccaa atttantngg gngaaatttg gggcttcttt 600
cttnaaagga taaaaaaaana ggggnntttt ttttgggtaa agggagcaaa cccnttnggg 660
tgaaataaaa aaancccaaa nggggggggg naaaanaaac aanggggggg accncccaa 720
attnnaaac aaataaaaaa aattttaaat tttttccctt ttgggggggg gntttttttt 780
tcccaaaatt ttnaaatttt tcccaaaanc ccccccttt tggggattna ntttgggggg 840
gganaaaacc ccaaaatttt tttttttttt tcccccttt ttntttnttt ttttttgggg 900
gggggggnaa attttttttn accccaaaat tttggggggc          940

```

<210> 279

<211> 792

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(792)

<223> n = A,T,C or G

<400> 279

```

ctttccacct ttatttaggg ggggnccgna aaatatgggg aaaagactnc accaccaccg 60
tcggtggtgg ggaccgtgac accgaagnn ttaccaaccg gggggganat natanaaagg 120
gttctctgac ctngcttgct taagngaaaa ccaattgnga aggcanaggg gtccacant 180
nacaccaatt agggggaaga ngaggnnggn attcaattaa cccacacagg cntggggggg 240
gaacaattgg gaaanaaccc anttaacaan naanacaatt ggggaaccct taaanaaagc 300
gcccanttgg nttggngaa tttncctttt tgnccaaccg aantngtttg ccnaattgaa 360
cccaaggggt ngtcntnttn nttgccaaaa aacnnttgaa agaattggcc ctnttgtn 420
tgancccaaa aanttggtga anaaacnaag aaganggggt tgcccaactc ttntnaaaat 480
tntttnttgg gggaaaaaaa aaacccttn gggtttnaaa ggacgaaagg nntcttnggn 540
caantttnan ttttaaattt gggggccccc ccnaacttta aacttttttn aanggggntt 600
nttttttggg gggnaaaaaa aacccccccn ttgnttgaag ccgaaagaaa ggaangaagc 660
ccaaagaaan cccctttttt ttttaaaagg nctttggggg gcttnggggg ttctttcaaa 720
cttttttttc aaaatttggc tttgggcttn gggcgggcca aagggccaaa ggggnaaaaa 780
aanaaaaaaa nc          792

```

<210> 280

<211> 969

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(969)

<223> n = A,T,C or G

<400> 280

```

tttttttttt gnaccgcccc cgtttttaan attaacnna acctttccac cttnatnaag 60
gggggggaccg taaanatatt gggnaaaaaa cttncacaac cnccgctcgt gatggggggac 120
cgngaccacc gatntanaaa naccatgggt tgntncnaac ctggngcgac caaggggacc 180
gagattgggc cccttacctg aagataaacc ttgggctnga aaattgnacc ttaaagaaaa 240
agngatnggg nattgctatn tttnttggg gggtnaaaaa agaaccaagg gggaccgtgg 300
ggngngnttta aaaggggnaa ttttttttgg ccccccggn aggnntctcc cccttggtgt 360
tgttgaacc ctngtgtntn gttgttgttg aaaaaacccg ccttgttatt accaccttgt 420
ttnaattggg ggggggancc naaattggga cccaccnttn ggatttggga attnttggg 480
gaggcnttct nggganaacc caaaggcntt gganaagcgg gggggctttt aacaaaactt 540
aanaaatttg ggggnaaacc cttntttgga ttntattgga gggantntt ggganaaatt 600
ntttgggntt caaaggggna aatttaaatt tnttngngng gggggacccc tttggggttc 660
tttnaaaaaa attttttggg ggtttnccca aagggttttn tttcccnaa aggntttggg 720
gntttncccc ttttttttaa agaantttgc ccttnggggg aaaccccggn gcccnaaagg 780
ggggnnnccc ttttttttna aatttnggga ccccggnngg gttaaagggg ggggntaaag 840
ggctaataaaa aatttggggg tttntttttt tctttcccn aaantttggg ggggtttttt 900
aaaacccctt ttttttttaa aattttgnaa nccnttnga aaagaaagcc ccnaaaattt 960

```

tttttttaa

969

<210> 281
 <211> 975
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(975)
 <223> n = A,T,C or G

<400> 281
 cnnctttttt tttttttntt gnactcttac ncgcncncag gaagcgnncc ggcccnacat 60
 tgtganaccn ctctttcaac cttanaaagg gggggggana ccaacanaaa ggnnctgggg 120
 ggntnnaacc acgggggnnc cacacacaca cacatnacga naagggtatc cganaccgng 180
 ggtnaaatta ccgaaatnaa aaggnncctn tggganatta aattaccgan aaaatattac 240
 ncttggggcc aaagaccaca cngggggggg ggggagaatt tccccaacn ttagggtnnt 300
 tccttaaggga gaaganccgg nggaccaccc gganaaagg gatnnancca ccacacnnn 360
 aattnttggg gtnaaaattn cctttaaggg gggggaaaaa ggggnttaaa aaacccttaa 420
 aaaacccttt tttgggggncc ntttttnncc nttgggggna attatttntt ttttaaacc 480
 caaggggggg ggnccnttnc ccaaatttta aaggggggnt ttggggggga acaanaaaag 540
 gnggggnggg gaaaaaccca tttttttggg ggcccnccct tttcccaaa attttccctt 600
 tttcccaaaa gggngaaatt tgggggggaa agggngnaaa acccnnaaat tttttttggg 660
 ggggggngaa ancccccttn aaaatttttg gggggggaga aaaaccctt ttntttttt 720
 tttttggggg ggaaaggggg nttttntttt naaaaaaaaaa ntttgggggn gcccttttt 780
 gggngnaaaa aaaaaaaaaa attnggggnan aaaagggnct tttgggggna aaaaaaaaaa 840
 gganaaaaac cccttttttt tttttttggg ggggggnggg ngggggnggg gaaaaaaacc 900
 ccnttttggg gnttttctt tgggggnnaa aggggncnaa aaaaaaagg ngaaaacccc 960
 naaatttttg gggggg 975

<210> 282
 <211> 945
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(945)
 <223> n = A,T,C or G

<400> 282
 tttttttttt ttgtaacctc nccngctcca ggaggcggac cggccaanat atgantaccn 60
 cnccttctac nttnaanann ggggaaaaa ccaaaatang gggcttgggg gatnaaccac 120
 cgggggaaca cacacacaca catncgaaag ngnattacga caccgtgntn naattncga 180
 natcanaggg gncnttttga tataaattac cgaaaanatt tttccattg accaagancc 240
 nccccggggn gtngacaat ntctccaacc tttaggtat tccttagggg aaggancggg 300
 ggnccaccgg nccnctccg gggggggggc aaagnggnat tnaacnttt ggattggggg 360
 gcnaatttaa tttttttttn caanaataat ttaattttcc aancnangg ggtttaanaa 420
 acccaaanag ggggnaatta accaaattng gcncccttat tgggnttntt gccccctttt 480
 aaaccaang ggggttaaat tttttgggncc cggggggggg gccaccaan ggnngnancn 540
 aancntttt tttaaaaaag ggnnttngggg aaaaaaanaa ggggcccaan ggacaaaaaa 600
 ggggttgggn tttatnatta gggaggagg gactttnggn aaaaccctt ttttttttnc 660
 gcnttnaaa cccttttttt naaaaaaaaaa anaaattttt tttttttttn gggggggngt 720
 tcccccaaaa ntttnaaatt ttgnccnaaa nttttttttt ttttnccaa aaaaaaaaaa 780
 aaaaaacccc caaaattttt tttntttggg gggcccnnaa anttttccct ttttttttg 840
 gggggggaat naaatttttg gnggggnccc cccctttttg ggggcccaa aantttttaa 900
 aantttgggg ggnccctttt tntttnttt ncccccccc ttttt 945

<210> 283
 <211> 521

<212> DNA

<213> Homo sapiens

<400> 283

```

aggtactttt aacaagtggg tgaattatth gataatthttg aggaagatta ttctttttaa 60
ttcaacttag tatgtcaatg cctaccatta ctctgattat attaaaacag aaaaaggaaa 120
taacaacttc gtataaccag cactgggtgag agttaaagac aagagctgcc cccccacccc 180
caaatgtcaa aggcaaatgc taaattgata ctggagctcg tggtgacttt ctacctcact 240
aacaacataa gggatctcca tattatthtca ccactatthct agctthtgctg atatatthgcc 300
aatgatttag actacagaat agttcaacca gagaatthtac tcattthattg attaaacatc 360
caaatactat tgtaacatac tatgttaaaaa ttcatacaatt caagtgccca cacaccactg 420
aattatcagc accaagcaat atattagaca tatggcaaaa ttcaacaaat atatthttgat 480
ataaataaat aaacgttcac gactthtactt aaaaaatcaa t 521

```

<210> 284

<211> 246

<212> DNA

<213> Homo sapiens

<400> 284

```

aggtagcaca tcaacttcag atctgtgaca ccggccaggc agcctgaatc aattaatthtg 60
aaagcctcga agagcatgga ccttgthgcca gatgaaagca aggtthcactc attggctgga 120
caaaaatcgg aatctccaag caaagatthtt ggtccaactc tgggtthtgaa aaagtccagc 180
tcctthgaga gtctgcagac tgcagthggc gaggtcagga agaathgacct thcctthtcac 240
aggccc 246

```

<210> 285

<211> 371

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(371)

<223> n = A,T,C or G

<400> 285

```

nccngngngg ncgacggtat cnataagctt gangnnggaa ttctthgcagg gcnggntnnn 60
nnnnnnnnnn nnnnnnnnnn nnaggtactt gaanggaaga agaggaggtc tgggaaacag 120
ctthccacatt gntatthtaac tcatcaacac tatthtctgat tggcctthtcc tgnthtagca 180
aanctntthg cnnctgacat cctgthaggac acancacccc cangtntggg tcagcgcgaa 240
gacngnctnc ancatcaggg gctthtcttht ctactthntt thgagthggca gctgattthgn 300
ctggacgagc ccnatagcca cctncactga ngggcgacct gcccgngcgg ccgccaccgc 360
ngthggagctc c 371

```

<210> 286

<211> 639

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(639)

<223> n = A,T,C or G

<400> 286

```

ccgggcagggt acacacgata taccaggccc tgnatcactt acggatgtta tctataaaat 60
tcaaacgttc caacaagagg ggtattattht tcccatttht ctgatgaaga aactgaggct 120
thggagtatt aggtgtaact thccaagct cttacagtha ataagthatta gagctggcct 180
tcaaaccag gtgtctactc caaaggactg tgaaaggatg aagatgatgg tgatcgtaac 240
aatgngngta acaataaaaa caatgggatg tctthtthtatt tcagaccag actctthtca 300

```

```

agactacatt aagtcctatt tggacaagc gagtcggatc tggatcatggc tccttggggc 360
ggcgatggta ggggccgtcc tcaactgcct gctggcaggg cttgtgagct tgctgtgtcg 420
tcacaaggag aaagcagctt cctgaagaaa agcagccact cctcatggag aaagaggatt 480
accacagctt gtatcagagc catttataaa aggcttaggc aatagagtag ggccaaaaag 540
cctgacctca ctctaactca aagtaatgtc caggttccca gagaatatct gctggtatct 600
tttctgtaaa ggaccatttg caaaattggt aacctaata 639

```

```

<210> 287
<211> 797
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(797)
<223> n = A,T,C or G

```

```

<400> 287
taaccncact tcacttatta ggggccggaa attttggggg gtggcgccgn ggggcacccc 60
ccttcnnaga ggtgngnacc nggnnttttn nttttgnacc tttggnttnt tncnnaatt 120
ttcccnttcn nanggggggg ggggnnttcc ccacnttggg ttnttttang aaacnggacc 180
cgngcaaccc ngnggaggnt ggggganacc ttccaancnt ttttggnttc ccctttttta 240
gttgagngg ggtttaaaaat ttngcngann gctttggagc gncttnagtn caattggggg 300
nccattangn cattggtttt tncncttgtt gngngnaaaa atttggggnt tattttgagn 360
ggntttccaa ccaaaatttt cccaccaac caanaccaat ttancccgna agggcccg 420
ggaaaaggcc catttaaaaa aaggngggg ttaaaaangg gccccttggg gggggnggtt 480
nggcccttta aaaattggga annttnggaa ggccttttta aacccttta accaaattnt 540
taaaaanttt ggccggtttt tgggcnnggc ctttcaaacc tttgggcccc cccgggcntt 600
ttttttcccc aaagggtttc cggggggggg aaaaaaaacc ccctttgggt ttccggngtg 660
ggcccccaag ggcccttttg cccaattttt aaaaattggg aaaaatttcc gggggncccc 720
aaaaaccggn ccnccccgg gggggggnaa. aggaaaang ccccggggtt tttttngccc 780
ggtttaattt ttggggg 797

```

```

<210> 288
<211> 534
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(534)
<223> n = A,T,C or G

```

```

<400> 288
tacgagcggn actctgggca ctcaanggna nnnaacnggc cacttcnaga cccacnccn 60
tntgtagctg cggcnatacc ctcaatgnta cnccttacta ctacacanc ccttacnaac 120
atggtncctg nggagcngct aangcttaaa cnggcttatt tccacangan nngancatnt 180
gtanacagac cctaactgan cggcactang gtgntatnna atccacanc cnttgganac 240
ccntanatgn agangngac nanagantca ttgagcgctg ganatagagn gttttgttcc 300
aagtatatga attnnttatt tcanccttta aattttgcc accagaacce ctttaaattc 360
ccctttgtta aaattttaac ctgtttagtc ccaaagagg aacagnctnt tttgggacac 420
ttaggaaaaa aacctttag agagagtaaa aaaatttaac acccatantn aggcctaaaa 480
gcagccacca attaaagaa gcgttcaagc tcaacacccc tacctaaaaa aatc 534

```

```

<210> 289
<211> 100
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> (1)...(100)

<223> n = A,T,C or G

<400> 289

```
gcgcgcaatt aaccctcatg ggggggacan tagntncctg cccccccnc ncnngcggcn 60
gacggatcgc ataagcttga tggnggggat tcctgcaggg 100
```

<210> 290

<211> 499

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(499)

<223> n = A,T,C or G

<400> 290

```
acctccactg ctttggttg tttcgttgta ggctgctctt ctgtctgtga ctcaatctct 60
aattctcgcc ttgccacata atcccaagtg agaggatcat ctgtgtgtag agcctgaagg 120
tcatcacaaa tctctttttg tagatctttg gcaaagtcaa atagctgngc aatcgaaagc 180
agtgcacagt gaaattctgc acctttaatt atgcttacag aatttttgta gatgatccat 240
gccaactcgc ccttaaggat ttcttcagaa taatcaggat tctccacatc catactggct 300
ttttcaaatt cttccttctc cttcctcagt ttttcagcat gcacagctc catcctaaag 360
tattctttat aaagttttgg gcactctgga tgaaagcgca gtgcgcgaag gaaatagttg 420
ccttgcgctt tctgaagaca aatcgatctt ccatttccca tttggctgcc ataatccaca 480
aagctgggtt gttggaatg 499
```

<210> 291

<211> 377

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(377)

<223> n = A,T,C or G

<400> 291

```
cagtgtcaag gcaggaggct tactcaagcc ctgttccttc caggcctcac agcagtggga 60
atttacctca gctaataagag ggagatctta caacacattt ntcaatctag attcatgtct 120
tgagacccca cccaagatc aaaagctcct tagtctcttc ctctgccac cttattgtaa 180
ggccctntn tcanggacct aatcccttca ggatcctaata aaaatgaaca ncattggggg 240
gaaaaaagggt aaacctttat ttggaaaaag agtttaaata acaattttaa accccatttc 300
actttcaaaa canaaacatg aaagcaagga aaagataatc tatcaagcat ctgccctctg 360
ctgtgggttag ccatttt 377
```

<210> 292

<211> 400

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(400)

<223> n = A,T,C or G

<400> 292

```
atggagctcc ccgcggtggc ggccgaggta caagcttttt tttttttttt tttttttttt 60
atccttgaag caaaggagct gtaattcaag gatttacaag acatttctgc atgacagagg 120
agtgattagg atttgtcttc acatgggagt ctccctgtat tgggtgaacc ttcttagtct 180
```

```
tgtcaatata aagtactgtg acctgagaga caccctcctc taaaaattaa ttgggagggt 240
ctgggctgca gaggtagggg gctgctttgg gctttgcacc tgcactttgg tgacattgnt 300
cttctgtgtt ccctttattt atgctggtgg cttcatccgt tcctcctctg agggtagagt 360
gaggggtata tggaacacg gctatgacca aaggagatc 400
```

```
<210> 293
<211> 461
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(461)
<223> n = A,T,C or G
```

```
<400> 293
ggcnatngga gctccccgcg gtggcggccg aggtgagaaa gtgatataca tactacataa 60
ttgttctgtt ggtaaatatg cccaaaataa tagttactat cattacatct tacagaaaca 120
aaaactttta gcttattact tttcagaagg aaaaaagtat cctataactg aaaataattt 180
tcgccacaat agcaaaatag aaaaaataaa tcttcctgaa acattagcaa gagattttta 240
gtttttattt gtttaaagag tataggtggt ggtttcaaga aaagactttt gctaaaagca 300
gctagcaata agattatggc tatcaaacca gtttctttca tagaaagtga ccattccttg 360
aagtgtact gtttttgaaa gtttcttaga acagtctcag cattctaaac agctgtagtt 420
ctacataatt gttgttgcaa tcttgggcag gaaaatcact a 461
```

```
<210> 294
<211> 300
<212> DNA
<213> Homo sapiens
```

```
<400> 294
tcgcccgggc acggtacggc cagggatgtg gaagatgggg acattcccaa aaaaggcagc 60
aaacttctcc gcatccatcg tggctgatgt gacgatgagc ttcaggtctg agcgccgagc 120
cactacctga gagaagaggc ggctcggagg ccccatggt ggggaccctt ggctcctgtc 180
ccccagtccc atcagcacca ccccgagga aacacaagcc aaagctgaca aatgggccta 240
ttcaattctt accaatcatg aagactgaag caatggagcc actgccaga aaacccacc 300
```

```
<210> 295
<211> 247
<212> DNA
<213> Homo sapiens
```

```
<400> 295
gggcctgtga aaggaaaggt cattcttcct gacctcgcc actgcagtct gcagactctc 60
caaggagctg gactttttca aaccagagt tggacaaaa tctttgcttg gagattccga 120
tttttgcca gccaatgagt gaaccttgct tttcatctgg cacaaggtec atgctcttcg 180
aggctttcaa attaattgat tcaggctgcc tggccggtgt cacagatctg aagttgatgt 240
gtacct 247
```

```
<210> 296
<211> 347
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(347)
<223> n = A,T,C or G
```

```
<400> 296
```

```

cgggcaggta ctgtaaactc tgttatattt catttgata agtatctaata aagcaattat 60
tacatatcct ctcatTTTaaa ttaccactga aaactagaaa taatctttat ttaatacgac 120
tgTTTTTaaaca ccatatggaa cgggaaataa ctaaatgaaa attgttcacg taaatgtgat 180
gggagtgggg ggggtgngta gcagtatttc ttgacatgtg gcatgtcact caggaaagta 240
aaaggcccat catatccaaa atgccagctt ggatattccc ttgccacca cttgacgaac 300
agacatacca catggcatta aatgctgcaa cctttcctaa aaatgcc 347

```

<210> 297

<211> 211

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(211)

<223> n = A,T,C or G

<400> 297

```

cttagggcga attggagctc cccgcgggtg cgcccgaggt cTTTTTTTTT tTTTTTTTTT 60
TTTTTTTTTT cTTTTTTTTT tTTTTTTTTT tTTaaccct ttatgtattt atttatcaaa 120
acactcgcaa acctgacctn actcaccaac acacacacac aaccaggaca catgtgccag 180
gccttatgaa aggctatnaa gtnccctgcc g 211

```

<210> 298

<211> 343

<212> DNA

<213> Homo sapiens

<400> 298

```

aggtaacctc ggaactgact agtaagtata tccaaagggt tagaaagggc tgggttaaga 60
gctacaagaa gcattaaccg caacggccac aactaatttg tatccattct tagtaacttt 120
agggaaccag actgaatgct tctcccacc ttttgacttt cctttattag ttcgcaaac 180
aagaacatac aaaagaccgt agcgacaacc atttctgacg ccttcaactt ttaaatacaa 240
attacgtgaa accacaaagc atcagtgggt tctcccagag gaatccaaga cccccgggcc 300
ggttgccaag ccgccggaat ttcagcagga gaggaaggca cct 343

```

<210> 299

<211> 797

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(797)

<223> n = A,T,C or G

<400> 299

```

ttttacttac tttgtgattc tggtgagaa cggttctctc ccaattcacc tgttgggcct 60
ccgagtggac tgggatgacc gctggatcaa cgatgtggaa gacagctacg ggcagcagt 120
gaectatgag cagaggaaaa tcgtggagtt cacctgccac acagncttnt tcgtcagtat 180
ccgtggtggt gcagatgggc ccgacttttg tcatcntgta agnaccagga ggtaattccg 240
gtcttccanc agggggatgn aagcaacaag gatcctttga tnatttgcc ctctttggaa 300
ggagacagcg cccttggnt gcattttcct ttcctactg cccttggnaa tggggtgtt 360
tgctcttag ngatgggtatt nccctcaaaa cccttaccct ggggggggtt tgggtgcctt 420
cccttacttc ttcttcttca tcttcgtatt atgaccgaaa ngtncaggaa aacctcattt 480
attcaggccn acgccctggg cngcttggg gttgggagaa agggaaaacc ctacctattt 540
tagccccccc ccgttccctt gcaccgcccc gtngggaagg cattnaagg cccaccacca 600
cttcttngng ataaccggaa caaccccaac cccccctttn tttttgttgt taccntgcc 660
ccccgggggn cgggggccgg gttcttaaga aacctanggg gggaatttcc cccccggggc 720
ctttggnagg ggaaatttcn canaattcna aggccttnat tcgganaacc cgnctcna 780
ctctnaaggg gggggggg 797

```

<210> 300
 <211> 510
 <212> DNA
 <213> Homo sapiens

<400> 300
 cgggcagggtc ggcaagcgcg cagtgtcgac tccccgggtct atgccaggcg catctcagct 60
 aatccaaaag taaatgagaa acttagaaaa agattgccaa ttccaaatca acatatttag 120
 agaaaattgg aaaaggagaa gcttactaca gctttatttg aggacttttt aaagaacgct 180
 gggttctatc tgtgagctgc aaatcttgga gcaaaaacca gagacattgc cagagcaaac 240
 aagaacagaa atacaaatgg agaactggc aaaagacata acccacagtt atcttgaaca 300
 agaaactacg gggataaata aaagtacctc ggccgcccgg gcagggtactt taccagcaga 360
 ccacagtttt gccctggcta gaccaaccct cagaacaaaa tcatcattcc ttgtatttat 420
 atttgtatct gagatagtaa acaagatggc tggccagggtc aacatggcac cttaacttat 480
 ttttttaata ggtaaaactt cttcaaaagt 510

<210> 301
 <211> 587
 <212> DNA
 <213> Homo sapiens

<400> 301
 cgggcagggtg ggatggggtg ttcccggtget cttctcatga tagtgagtaa gtctcataag 60
 aactgatggg tttcaaatgg ggagtttccc tgcacaagct ttcttgtctg ccactatgtg 120
 agatatacct ttccaccttc gccatgattg tgaggcctcc ccagccacgt ggaactgtga 180
 gtccattaaa cctctttttc tttataaatt acccaactctc ggatatgtct ttataagcag 240
 tgtgaaaaca gactaataca gagaccagc ggggtggagac ctccagctcc tcatccctca 300
 agatacagga agtgagctgt tcaggccgcc tggtccccga cgaggtaagt tccaggggac 360
 agaaacaagc tctctgaaga ctctcattaa tctttgctgt ccgaagctac cttctccatc 420
 tcctgctcac ctgggaggac tccctggagg aagccaggaa aggtgaaaat ccatgtatct 480
 cttcacattt ggagaacaaa ggggaattcaa gaacaatttt atggattttc tttgtttttt 540
 attaattaag acatgcctgt tttaaattag acaataattt tttaaat 587

<210> 302
 <211> 992
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(992)
 <223> n = A,T,C or G

<400> 302
 agggggggggg aanagccnan aaaanaaggn cttggggngg ttnacccccg gggggggccc 60
 ccccccccn cnttcccgga aggggggggtg cccggaaaacc ggggggttaa tttcccgga 120
 attaacaagg cccttttttg caattaaatt cccggaagag ttgttnccncc ttgggccaaa 180
 ggcccccccg gggggggggg gggaattccc ccaacctttt aaggnttttn cctttaaggn 240
 aaggcccggg gccnccgcaa gngggttaaa ttgggaaagn gaattaaagg ttanggccaa 300
 ttaaccaaatt ntttnaatta aaattggtn tttgggcntt aattntttgg aaccaaaaag 360
 nttccanttt ttttttaaaa cccttttttt aattccaacc aatttttaatt tttttggcc 420
 aattgggtn taaccncctt cccctcaat taaaaaaaac ctttttaaaa ggttggggcc 480
 gggggggaacc aaaaaagggt ttttttttta aaaatttccc ccaagggaaa aaattttttg 540
 gaaacccct ttttttttg gggaaccctt ttttaaaaaa aaaggnccca aagggggggg 600
 gggggggaaa cccttttttt ttgggttnaa ttttaaaggg naaaaaaggg gggttttttt 660
 tggggggggg gggnggggcc ctttngnntt tggggggggg gggggaaaaa agggggggaa 720
 aagggaagg gtttcccccc cccccccttt gggggaaaaa ggggggggtt ccctttggga 780
 aacccaaacc ccgggtttcc cttttgggcc ncccttaaac cccccccaa attttttccc 840
 tttttggggg ggttggggaa atttccaaa aaatttttta aaaaaaaatt gggtttaaa 900
 ggggggttaa atttgggaaa aaatttaaaa aaggnttttt nccgggaaa aagggccctt 960

tccccccggg tgnggggaag ggggtgggaa aa

992

<210> 303

<211> 662

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(662)

<223> n = A,T,C or G

<400> 303

```

cgggcaggta ctttttcctc tggcacagta actgcttccc attgatgac atcattatct 60
ccagcaatgt anaatgagag agtctgactc ccaaggatta aaatcaattc caaaattcct 120
caagcttttt catgntgatg gtattatgcc agctcatatt tattcaagga acatgcctga 180
ttaaancaag ggaagatggt aaagaccctt tcttttgtct ccaagcatgc ccattttaca 240
aagggttgag nanaatatcc ctgccaaatc ttgttttcaa aattcaggag tcccttaaat 300
tcttttaaaa tgccttagtc aaatnaaaaa tccattingaa aaaccactg gatggtgcca 360
gtntcttgtn cttttgtttt ttcttggtgt tcatttctac cacaaaagct tctacaaatg 420
cccttaccct gtaaggatcat aatctncaag catcntaaaa atccttntct cccattacc 480
tacttcatgg aagaattaaa cattttcttt tgggtaagga gaggtatttt tttcgggnca 540
ttcttgaggg cnttttttng tcttagngaa tngggaatcc gataagnntt gnaataaatg 600
gatttttttt tataccatta ggaattatta ttaaaaaaan taccagcccc ngggaaaaaa 660
cc                                                                 662

```

<210> 304

<211> 263

<212> DNA

<213> Homo sapiens

<400> 304

```

tccaccgcgg tgggcggccc gcccgggcag ggtacttaag acctggtatg gagacccac 60
ggggtgggaa agggcttccc tctgccttga caatttcctt gaatatccag ccagtaaga 120
atatttttta catcatgact ttagataaca cgtttataac tgaagcaaaa gctcgaagaa 180
acaacactta actttactac aggagttaca ccccatgcat ttttaattcc aattttgtgt 240
gtgtgtgtgt gtgtgtgtgt gtc                                     263

```

<210> 305

<211> 904

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(904)

<223> n = A,T,C or G

<400> 305

```

accgnggtta antncngnaa ttaanaagtc cntnngggat gaattctggg agagtgtncn 60
cctnngcgag ggcncncngg gggngnggga attcnccacc ttagatnttc nttaggnaag 120
nccngggcnc cgnaagnggt tcncccaaaa atttngggg accccanaat tccttaattc 180
caacncnctt tattaggga agggaaacnt naaaatnggt gttaggtnat caaangctta 240
naaccaattg gaaaaaacn aattttcctt cgcggtcncc ggcgattaaa aggcccttg 300
gccggttcca gnaattttat aaaaaaccan ccttgnatac ctgggacnaa aattttataa 360
ccaaggcgcc ccaaaattaa tnccttaacc aaaattgcna aaacnccaaa accaaaaggt 420
ncaaatttta attttaaccc cccttccaac cttggttcca aaacccccca aaaccaacca 480
aggggccaat tggccttcn aattaaaagg ggggaaaaaa gggggttttt aaaaaaaaaa 540
aaaaaaaaa gggtttaana aaaaaaagg ggggaaaacc ctttcgggg ggccaaaaaa 600
aaatttcctt tttttaaccc cccccccgg gcccccctt ggggtttttt ttaaaccccc 660
caaaaaaaaa aaaaaaaacc caattttcca aacccccctt ttccttttaa agggggccca 720

```

```

atttcnnaaa ccccccaagg ggggtttaaat ttttnaaggg gaaagggggg gcccaaacc 780
cccgggcccc cctttgggcc cccccccaa ggggttgggg gaancccaa cccaaatttg 840
gggttttttt tttaaaaaac ccgggggggc ccccggggg cccccaacc ccccggggc 900
gggg                                     904

```

```

<210> 306
<211> 431
<212> DNA
<213> Homo sapiens

```

```

<400> 306
aggtacccaa tataaagaat atcactgaaa gtaacaatca agaaaattct ggaaatgtat 60
gtaatatattg ggttgctgaa tgaagatata ggactttatg gattgattgt taatttaact 120
gttaggacga tatatttttc tgtttttatt ttaaggaaga gcaaagctgt caaataagct 180
actatatcag aagggaacata aactgaacta gtgccattct gacacacagg atcagaaact 240
cctaaaatca catattcctg aatactgcta tcagcaatac cactgagact gattcactgc 300
tatgttatgg tgatgatttg acatgatcca ttctccttaa ctaaagcttt agcttctgtg 360
gttgtctgag gttttggtgg ccattctgga tcaaccaaga gtcctgcgc cagatacatg 420
tacctgccc g                                     431

```

```

<210> 307
<211> 943
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(943)
<223> n = A,T,C or G

```

```

<400> 307
gggnagncct ttcccaacnc ggnccgggnt ggggccgggg ncccggnagg gggtnaccaa 60
aggnctntnt ntntntntnt tntntntntn tntntctntn tctntctntn tntntntntn 120
tntnnngggn tntctntgtg tgtntctnac gngnntgana caannantgt ntncctntnt 180
natntnanan agtgggggng tnanatntnc ccatnanan atnananana ntncctntnt 240
ntnccacntn gganatgant tanaganatg tnanananat ncantttctc accacanact 300
ntgatntgcg ccaaggtgan tnttancnan tttttgccnc gcttcccctt cncccccaa 360
agagagggcg ttacnaattt ntnttgggat tagacaatta naaaaaccca ttttccaggg 420
tgcnttttaa aaaaaaccaa cccctnggga atntntnccn tnggnntnt cggccnaggg 480
tttttnaaga caagngnngg ccaaganaat taagncctt gggcctcctt tctttccaac 540
ccaagggaaa ccaanccttt tcnattnngg gggggaaggg ngtgggggttn ccccccccc 600
ccttttttcc aaagggggaa aaaagggggg gggnaattng ggggnaaaaa aanttggggc 660
cccccccttt ccccccccaa aatttttttn naaccctttt ttttttttgg gggccccaa 720
aaaaanaggg gggggaaccc cggaaaaaat tttaaaaaaa aaaaggnccc tttttttta 780
aaaaaaaaacc cttnggggng gcccccacaa aaccctttaa aaaaatcccc tttttaaatt 840
tntnnaaatt cccctccctt tttttttnt naaccgcna aaccttggg gttaaaggga 900
aaaaaacccc ccccccaaa aaaaaaang gggggaaaaa aaa                                     943

```

```

<210> 308
<211> 511
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(511)
<223> n = A,T,C or G

```

```

<400> 308
aggtncaaat actgcctagt gtattcaaca gaaggactgt ggtcatgtaa caggtaacca 60
caattttcag gtttcttaaa aacagctgt actaactcag gatttttatc ttgagatttc 120

```

```

cctgaataat atatttatct taagagcctt caagtttcaa attaatattg gaacatntgg 180
aattgcaaca acttttgtct ttacataaaa cttacgncat ttaaaaaatg tnttcaaaat 240
ctacctttct caaattcttt ttgcctctat ttatttttgc atttcaccaa cagtataaaa 300
atagttaaata gaaacaaagc aaagtntcaa cagtccctta aatgagaatc cttatctttg 360
atctttattt tctgtgttag gtgttagggc cctgggtgcag ctcataatgc taattcttca 420
ttggaagcca ctcccttcac ctnacctcac ctagtacta ttgtctttgt tcattgtttg 480
atcctgagtg gttgattgat atagctttga a
511

```

<210> 309

<211> 539

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(539)

<223> n = A,T,C or G

<400> 309

```

tatagggcga attggagctc cccgcgggtg cgcccgagg tacatgtgaa gagtctctga 60
tgtgatgatt ttcagctgga attatttttg atcaaatgaa tctggagacc gattcattgt 120
gagcacctga ataaaatgaa aactttgttt ccccttggtg actgttgggt tggtttctgt 180
tacttggtc tctacatttg ccaggattct ttggggaggc agtcacagga gtgaggtgca 240
gttgcttttc ccacgagtta ggggaactcc tgctgcctga acacaaaca cctgacatg 300
ttcccttctc caagaggaga tgtgatgaca attgtctttt ggcaaatg aactctagaa 360
actccatttt tgtttttcca gaggtctgaa tcccaaataa cagaattttg tgcagtaggg 420
accaggagcc ctagtaagga tgggtggccc tgggtggccag caatgctcac tattactgct 480
canagagagg ggggccagtc atgggaagag gctagatttc ggtgttcaac aaacttggg 539

```

<210> 310

<211> 606

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(606)

<223> n = A,T,C or G

<400> 310

```

agctccccgc ggtggcggcc gcccgggcag gtacagttag ggtgttcaga gggaggcaca 60
aagaatagct ctgagattag gcaatggaaa tgacaaaaaa gagatgaata aatncgattt 120
gaataccaac aatttgctct tcaaacctcc tgtagagagc catatacaaa agaataagaa 180
aattcttaaa tctgcaaaaag atttgccctc tgatgcactt tatcatttga atncagaggg 240
gaaggttttt gcttgagaga acaagtttga aagcaaatgg ggttttttnn tttaaaagac 300
catacccctt tttngtgta tttctacttt taaaattttc atgggctaga aaatggtgtt 360
gttgattgca agggcctttt ngggaatnga ggnntcggnt tcatcaggcn ggtcttttgn 420
ccgaaccaac ttcggttatt aggatgcctt tgnnaganca accattcggt gatccttggg 480
tttaccaagg tacctttggg cgcttctaga actagtggga tcccccggn ctgcangaat 540
ttcgatatta agcttattcg attnccgccg acctcggggg gggggggccn ggtncacct 600
tttggg
606

```

<210> 311

<211> 492

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(492)

<223> n = A,T,C or G

<400> 311

```

ctnccgcg tggcggccga ggtgcactgt gtattgatgg tccaaaaagg ttttgctcca 60
atagcaaata gagcggccgc ccgggcaggt acctgtgtta tgcctgtgct ccagcagctc 120
attgcctctg gcatgaactc ttctagggtt ggaaattcca ctttaaataat gaggaatgt 180
ctgctcatgt agatgatatg acttgcccta gaacacaaat ctanaaaatg cagcaaccag 240
aattttccca agtttggtga acaccgaaat ctacgctctt cccatgactg gccccctctc 300
tctgagcagt aatagtgagc attgctggcc accanggccca cccatcctta ctagggtctc 360
tgggtccctac tgcacaaaaat tctgttattt gggattcaag acctctggaa aaacaaaaat 420
ggagtttcta gaggttcaatt gtgccaaaag acaattgtca tcacatctcc tcttgagaa 480
gggaacatgt ca 492

```

<210> 312

<211> 252

<212> DNA

<213> Homo sapiens

<400> 312

```

ccgcgggtggc ggcccgcccg ggcaggtagc ataattgtgt tgatttgtct gttgcttttt 60
ggatttctcca agatccagga aatgctcatg agcatgattc tttgagacag tgggtatttt 120
attctctttt ggaacagtta agtggtttct ttctcttctt gacctgtaag tctttatttc 180
ttcttctccc tttgcagttc tccattcttc ttgcctactg gctacaccag ctgatagctc 240
gggtacctcg gc 252

```

<210> 313

<211> 232

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(232)

<223> n = A,T,C or G

<400> 313

```

nccgggcagg nacgataatt gtgttgattt gtctgttgct ttttggatto tccaagatcc 60
aggaaatgct catgagcatg attctttgag acagtgggta ttttattctc ttttggaaaca 120
gttaagtgtt ttcttttctc ttctgacctg taagtcttta ttcttcttcc tccctttgca 180
gatctccatt cttcttgccct actggctaca ccagctgata gctcgggtac ct 232

```

<210> 314

<211> 581

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(581)

<223> n = A,T,C or G

<400> 314

```

ngcgaattgg agctccccgc ggtggcgggc gcccgggcaa ggtgttcgat acgttaggtg 60
tattaaatgc acttttgact gccatctcag tggatgacag ccttcttnc t gacagcagag 120
atctngctca ctgtgccagt gggcaggaga aagagcatgc tgcgactggc cagtgacatg 180
cagaggatcc agattgcaca accggatcca gaggentngg gaagtattng ggancctcnc 240
angttttntt ctaaaatttt gnggcatttt ntcccncaa agnggggcc annaggnnc 300
cctttttggg ccttttnttn aanaaaaaaa ganntttttt nttttnannc ttttttttta 360
aannaaanct caaaaaaann gnggggggtt tttttttttg naatatncnn aagggggggg 420
ccccccnncn ntntttnttt tntaaaaaaa ancttttttt ncccccccc ccccccnct 480
naaaaaaaa anttnnggtt ttttttaaaa aaantttttt ttttttnggg nncancnct 540
tntntttttt tnnntttntt ttggnggtt tttttttttt t 581

```

<210> 315
 <211> 238
 <212> DNA
 <213> Homo sapiens

<400> 315
 aggtactatc ttacctatcg aaggcttgag tgacttgccc aaaataagtt ttacgataga 60
 acaagtggta ggacttactg ttttgagaat ctggtgctct ctggtgagag agatctggga 120
 gttaaaatca ttgtcttaaa agcagagcct gagacaggca tgaagtgtta aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 238

<210> 316
 <211> 873
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(873)
 <223> n = A,T,C or G

<400> 316
 gggggccncc ccccnncnctt cggggggangg ggtcccggca cccgggggttt tattccggna 60
 attaaaaggg ccttttggna ttaattcccn gaanattttg ccttggtcca ggncacccgg 120
 ngngnggggg aaatccccca cntttagggn tttnttnaa gggagggccg gggnccctgn 180
 agngngttgn cncnnccttt ttaccattt acccnagaa agggcanaaa anttacattt 240
 tantgggctt tctttgggaa accacaanag ccaaggctta accccttacc gccgggtaag 300
 acccctcctt aaccaagggg gccctttaat taacccaaaa ttaccccccgg taggnittggg 360
 ccaataaggg aaaggttggc ccaacatttt taatttaaaa cccaaaaggg ggcccttttt 420
 caaagggccca atttggggcc aaggatttgg ccccccgggg ggccctttgg aatttgntaa 480
 atttgggggg cccaaccccc caaanccaaa aanggtnaaa ttccncccc cccaatttc 540
 caaaaaattt aaagggtaac ccaaanggcc caattttttt cnnaaagnaa aaaaaggggg 600
 ggaaaccnc ccccccccaa aggggggggg ggaagggggt tttttnttgg gcccccttg 660
 gggggncccg ggtttgggna aattccccc ctttgggaaa aggttttttt ggccccccct 720
 tttgggaaaa ggggggtttc caaanttttt tccaaacccc aaatttgggc cntttttttt 780
 ccaaaagggc ccaanccccc caaagggttt ttttnccccc cccaaatttt ccttttgggn 840
 ttttttccaa aagggggggc ccaaaaaaaa aat 873

<210> 317
 <211> 536
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(536)
 <223> n = A,T,C or G

<400> 317
 cgggcaggta catagaccat ttgccttata ttggcaaatg taagttgttt ctatgaaaca 60
 aacatattta gttcactatt atatagtggg ttatattaaa agaaaagaag aaaaatatct 120
 aatttctctt ggcagatttg catatttcat acccaggtat ctggggatct agacatctga 180
 atttgncttc aatggnaaca ttgccttaa aataacaaaa actttttang aagnaaaggc 240
 cttttttttt tngggcccaa aactttttta antatccttt tgggcccgtt aaaaaagggc 300
 ggggaaaatt tnggaaattn ttttttttaa aaaaaaannt ttttnaaaaa ngaaaaagg 360
 naaaaccccc gggttggggg gttttttntt ggccncaanc cccggggaaa aatnnggggg 420
 gggggnccgg tttttttttt ttttttaaaa naaaangggg gccccccaaa aaaaaaannt 480
 ttctctccnc caaatattna nttttttttt tntaaaaaaa aaaaaanncc ccccc 536

<210> 318

<211> 699
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(699)
 <223> n = A,T,C or G

<400> 318
 aggtcgctgc tggagctgcg cgctaacggg ctgctgcaac ctaagtgcag cgccccgcgc 60
 ctggctccag gtggactcca gggcaccggc tttatttntg gtgcactcct ctctgagag 120
 gtgtagacca aggtcgnccta ataaactcct caaggatga aaaccnnnnn nnnnaannnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnccc cnnnnnnnnn nnnnnnnnnn nnnnnaaaaa 240
 ggttnttctt ttccnggggg gngcancgg ngggggggcc ccaattnncc ctntangggg 300
 gggntaacc cncctcatt ggccgggntt ttaaacctt nngacttggg naaaaccctg 360
 gggttnccca aattnnatgg cntttgaaga aaatccccnt tttncagggt gggggtnaaa 420
 acnaaaaagg ccccnccaa ttgncctttc caanaantt cccancctta atgggaaatg 480
 ggaccccccc ctttancggg ncanttaaag ccgggggggn tgnnggtttt ccccaagg 540
 gacctttan attttccagg gncctaangn ccggncttt tggttttttt ccttcntttt 600
 ttgncncgtt ttgccgggtt tttcccgga agntttaaaa nggggggnc cntttagggt 660
 nccaattaag gnttttnggg ccttnccccc aaaaaaatt 699

<210> 319
 <211> 815
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(815)
 <223> n = A,T,C or G

<400> 319
 tgggaagctt cccacccgcg ggttgtgccg ggcccgcgcc gggccagggg nttaccaatn 60
 aaatccgttt tttggtnggg nagttccggg ccaccaagtt tcaagggnnt taattgggga 120
 gggccacccg ttaaaatttc aacccaaaaa gtttgccaaa naaaaaaaag ggccaaanng 180
 gggaaaaaaa caacgccttg ccaattgggt aagaaaatta aagggggcat ttccaaaatg 240
 gttgcctggt ttaaacggtt taaggggcca ggcttaaaat tgggcccata aaaaccaagg 300
 ggcccaaagg ttcaaaaagn aaaaaaggtt gggttccttg ggtttttggg ggaagggttg 360
 gaaatttttt ttggccantt ctttaagaaa aggggccatt ttccttcttt tcnttccggg 420
 gggacccctt caaaaaaagg aaccttggga aggnccaacc cttggttaaa agaaaagncc 480
 aattgggttc cttttccnt tttncctctt tcnaaaangg gggcccccaa aaattgggga 540
 atttaanccc ttttttcaaa aggaaaattt aaccccccaa aggaaaattg gggggttttt 600
 tttccaaatt tttttttttt ttccnaaaaa anttttggc ccgggggggt tccccccaaa 660
 aaaaaaggaa aagnaaaggg ggggggtttt ttgggaaaagg gttttttggg gggggggccc 720
 cccaaaaaaa aaaaattttt tgggcccata aaatttccaa aaggncccc caaaaaaaaa 780
 gggaaagggn aattttangg gcccaagggc ccnaa 815

<210> 320
 <211> 426
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(426)
 <223> n = A,T,C or G

<400> 320
 gcganttgga gctnccgcg gtggcgcccg ccggccaag gtacaacatg tttgtgaatt 60

```

tcccagacca gccggtggtg tggagagaaa tcagcattat tacatnagca ttaaggaacg 120
attcacagga caaacaacc caatttttaa gaagtttatt tgaaactott cctggtcgag 180
tccagtgtga aatgttacta aaggtcacgg aacaatgctt caacacgtta gaacgatcag 240
aaatgttgct tctacttttg aggcgttcc ctgaaacggg ggtgcagcat ggggttgcc 300
ttggggaggg actattagag gctgaaacta ttgaagaaca agaactctca gtgaactgct 360
ttagaaaatt atttgtttgn gatgtccttc ctctaataat taacaaccat gatgttcgat 420
tacctg 426

```

<210> 321

<211> 382

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(382)

<223> n = A,T,C or G

<400> 321

```

ccgcggtggc ggcccgcccg gccaggtact gtcctgagtg gtttgaagg tgggtagccg 60
ctgatacagg gacaggcaga tgtgcagaca cttaccaccc tgggccaccg atcccacccc 120
atgcttccac ctcccagagc tcttganata agaccttaag aaggatcctt gggcttgcag 180
taaaaccact ttgctgtccg tggaggtcta acaggaccca ntagttgtta ctacaaaagt 240
gcttttgcaa atagggaag ttagaagaaa ggaggtaata tgaatattct ttagaaaaac 300
ttaaatccat cggcttatca ataccgaagg tctggagggt acccagggca caatnngtc 360
catggaatgc ttgagtggaa gg 382

```

<210> 322

<211> 266

<212> DNA

<213> Homo sapiens

<400> 322

```

aggtacaatg tagaactctg tccaacacta atttattttg tcttgagttt tactacaaga 60
tgagactatg gatcccgcat gcctgaattc actaaagcca agggtcgagc ggccgcccgg 120
gcaggtagat gcatttgaat gacatttttag gaacagtaaa tattctttta aatactgcaa 180
gttaaaaatg ttttctgaca aaactcccta aatacatagg tctagtaagg ggtttccaac 240
aggatgatgg gtgaggaatc cagcaa 266

```

<210> 323

<211> 372

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(372)

<223> n = A,T,C or G

<400> 323

```

ccgcggtggc ggccgncnng ncaggnacaa acacatacta cataattntt ctgtnggtta 60
atatgcccaa aataattntt nctatnatca catcntacan aaacaaacac ttttaagctta 120
ttacttttna naagganaaa agnatnctat aactgaaant aattttngcc acaatngcaa 180
aatagaanaa atnnatcttn ctganacatt ancaagagat tttagttttt atttgtttta 240
agagtatagg tgggtggttc aagaaaagac ttttgctaaa agcagctagc aataagatta 300
tggctatcaa accagttntt ttnatagaaa gtgaccattc cttgaagtgc tactgatattt 360
gaaagtttct ta 372

```

<210> 324

<211> 355

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(355)

<223> n = A,T,C or G

<400> 324

```
gggcgaattg gagctccccg cgggtggcggc cgaggtacaa cgcncgtttg tngagaagcg 60
gcttggtcgg ggggtgntttc ttngggtcct gnctgtttan nctctgtgag ggnncttgag 120
cccnttcacg accgncacca tggaagtgtc accattgcac cctgtaaatg aaaatatnca 180
ngtcaacaaa ataaanaaaa atgaanatgc taataaaaga ctgtntgttg aaagaatcta 240
tcaaaagaaa acacaattgn aacatatattt gntccgncca gacacctaca ttggttntgt 300
ggaattagng acccagnaana tgtgggttta ccgatgaaga tgttggcatt aacta 355
```

<210> 325

<211> 409

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(409)

<223> n = A,T,C or G

<400> 325

```
ccccgcggtg gcggccgccc gggcaggtct gcaatgttgc atacagccaa agctcaacat 60
tggaatcca catgaggtct gtgntccacc agacaaaggc tagggctgca aagctggagc 120
ccantgggtc tgtggctggt gggcacaaagn attgcagcaa atgtcaacag ncctggccag 180
gggatgttag attccatgag tttagcagct gtaaacagca aagataccca tttagatgcc 240
aaagaattaa ataaaaagca aactcctgat ttaatntntg ctcaacctgc acatcaccca 300
ccacagtnac caagcacaaa ttcagatgca actacagcac gaattacaac agcaagccgn 360
attctttcag cctcagtttc taaaccacgc ctttttgcct aattttcct 409
```

<210> 326

<211> 280

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(280)

<223> n = A,T,C or G

<400> 326

```
agggaccttc tgcctgtttt cgttatactg aatgaccagt tcaaaaccaa agttttccaa 60
taacgctttg gcagnatttc ctctggcccc tgaagctatt cgggggtggtg ggatggatgg 120
ttccaaggat ttttgcttct ttgtgtcttt gccttctttg agtccttcac cttcacttat 180
aaattcctgc tttggttttt ctggcttttc agaaatatct tctgcctcct tataagatgg 240
cacatccttc atgatttggc agtctgcact cactatgtta 280
```

<210> 327

<211> 434

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(434)

<223> n = A,T,C or G

<400> 327

```

gcgaggtacc tctntctgtt caacaagggt cattccggct attnatttaa cagctggaaa 60
gttctatata tnnngcaaag atnatctgcg gnggagggtt natncctggc ccctggcctt 120
cctggccttg gacttttgag tgcttgccgg atccttaatt cctttccggt tccagngng 180
ngnggaanaa acantnaaaa ctccagccaa anactttntt atngaaaacc ccnttttttt 240
ttttaaaaag gaaaaaaaaa aaanttttaa ttnatttttt ttaaaaaagg gaaaaaaaaa 300
ccccnnaaaa aaaaaatntn ntttnnnnnn nttnnnnnnn nnannnaggn nnnnnnnntn 360
nttttncnn aaaaaaaaaa aaannnttg ggggnannta nttttttttt ttttaaaaaa 420
aaaaaaaaa aaaa                                     434

```

<210> 328

<211> 445

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(445)

<223> n = A,T,C or G

<400> 328

```

cgggcaggtn cttatttgaa ggtaaanatt attctaaaga gcccagnacg gaanacagaa 60
aatnatttga acaactggtt aaccttcaga aaaccttttt ggagaaagnt agtnaagagg 120
gccnatcact ncgaaataaa ggcagtgttc tnatcccagg ccttgtggng ggatttacca 180
aaagggaagcg gttttttntt ccaaaanagt tnggccacac ccgaaaaaa aaaaacnccnc 240
cctttttccc aaananaggn gnntnttttt tngggaaaaa aaaagggggn aaaanggggg 300
nggccttaaa aaaaaaaaaa aaaaagtntt ttngnggaaa aaaaaaaaaa aaaaaaant 360
tttttntnc cccttntttn nggggggggg ncccccnnn ttttttttna aanggangna 420
aaaaannttt ttttnnaaaa aaaaaa                                     445

```

<210> 329

<211> 371

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(371)

<223> n = A,T,C or G

<400> 329

```

agctccccgc ggtggcggcc gccggggcag gttgaccttt ttgtgtttgg aacacttggt 60
tccatgaaaa gtatgctttg tgttttaact gttaaaataa tttaaaaatt aattattnta 120
cataattaaa gaagttaaaa actattaaca ttaaataatt tcacaatttc aacatgtcaa 180
acctatgaag ggagatagga aacaatgaga aacttacttt tgctccttta tacagaatta 240
ttaactatat tttaactaact aaaaaactct agtattcttt acctaaagtc aattggctgg 300
taagaggggag agatgcaaaa ttctccagct ctgaacttgg agctacttca cactctactc 360
ttaatggaaa c                                     371

```

<210> 330

<211> 283

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(283)

<223> n = A,T,C or G

<400> 330

```

aggtagacagac tggggaaaaac cacggntgcc accccaacac ttgccacaca gtcacactat 60

```

```

aagccaaact taaacggact ccaggtcaga ctctaaaatc ctcgacagtc ctctagtttt 120
ctcagggctt atttgccaca gacctgccaa acatgtgata actgcctcca ggcacttggt 180
atgttcccgg tgetggctca ccagcccggg ccacacaacg tgctctcacc cactcatagc 240
actgcaagac acatctgcct gcaccgactg tcagttcatg tta 283

```

```

<210> 331
<211> 559
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(559)
<223> n = A,T,C or G

```

```

<400> 331
ccgcggtggc ggccgaggtc acactgttac cagntttata aaatcagggt catctgggca 60
tggagtcca gctccatgca acatcccact ggacatctcc ttcccttgctt cactggcagg 120
ctgggtctcc tgtcattcct actccattag ttcaagggtca gtgaagaact ggggcaatta 180
accaagtaat tcatggactg cccaactgcg aaacaagaag ggcgcagtgg agcaggagta 240
ttatgctacg cggttacctt tttttatgga ggaccgaact gaggtgagc ctcatgatgat 300
cctgcacgag gttatgcagt ctaaataaaa ggctggaact attcgttgaa acatacgaaa 360
ctgctaacat tggactgttt ttgactttta aagtggcaat ttcatatggn tcaacctata 420
gaagccaaaa ctttctctgg cacaacagat tgcttcaggc catctctacc cagctaaaca 480
ccccatccca ctaaacactg taactaggag ggaaggcang aagttctttg taaggaagta 540
actaactact tnttttccc 559

```

```

<210> 332
<211> 485
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(485)
<223> n = A,T,C or G

```

```

<400> 332
cgggcaggtc ggcaagcgcg cagtgtcgac tccccgggtct atgccaggcg catctcagct 60
aatccaaang taaatgagaa acttanaaaa agattgccaa ttccaaatca acatatttag 120
agaaaattgg aaaaggagaa gcttactaca gctttatttg aggacttttt aaagaacgct 180
gggttctatc tgtgagctgc aaatcttgga gcaaaaacca gagacattgc cagagcaaac 240
aagaacagaa atacaaatgg agaactggtc aaaagacata acccacagtt atcttgaaca 300
agaaactacg gggataaata aaagtacctc ggncgcccgc gcagggtactt taccagcaga 360
ccacaagttt ttgccctggc tagaccaacc ctcagaacaa aatcatcatt ccttggtatt 420
atatttgat ctgagatagt aaacaagatg gctggccagg tcaacatggc accntaactt 480
atattt 485

```

```

<210> 333
<211> 415
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(415)
<223> n = A,T,C or G

```

```

<400> 333
gggcgaattg gagctccccg cgggtggcggc ccgcccgggc aggtacgaca tgtttgtgaa 60
tttcccagac cagcccgggtg gtgtggagag aaatcagcat tattacatca gcattaagga 120

```

```

acgattcaca ggacaaacaa acccattttt taagaagtta tttgaaactc ttcttggtcg 180
agtccagtggt gaaatgttac taaagggtcac ggaacaatgc ttaacacgtt agaacgatca 240
gaaatgttct tntacttttt agggcgnttc ntnaaacggg tggngcanna tgggggttg 300
nccttgngga ggcactatta gaggtgaaa ctattgaaga acaanaatct ccantgaact 360
gcttttagaaa attatttgtt tgtgatgttc ttctctaata aattaacaac catga 415

```

<210> 334

<211> 453

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(453)

<223> n = A,T,C or G

<400> 334

```

gcnatnggag ctccccgcgg tggcgggccgc ccgggcagggt acatgattac agacataaaa 60
taacaggttc tgagttctgc ctttcagtga gaataaagggt tatgatagtg gctgtgcatg 120
gatgacttgt atctcagcgt taatagaatt tgatctgggg aaagttcctt gccatagttc 180
otgagttgaa aacataatta catctctgga gaaaggacca aatggagtga actattgttt 240
agagtattaa gttctatagt tcagattaaa caacacactt acccaaaact taatttggat 300
ggattttata taaaatatat aataagaatc ataccatcat ctattttag ccaaagtaaa 360
aagatttatg agaagaataa ggactctgct atagatctgg atgttggttt cactttcaaa 420
oacanaaata agtttctttt taaaaaagta cct 453

```

<210> 335

<211> 227

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(227)

<223> n = A,T,C or G

<400> 335

```

cgggcagatg catacataga ggtatgggtg aaaaagatga acagttgtag atncccagga 60
tatcagatgc aggaacccaa gcattggcca atgagactgc agagctgggg tcacagtgga 120
aattatttgc aaaggctctg aaaggcnntc tcttttttct ctntntntct ctctntntgg 180
cacacacaca cacacacaca cacacacaca cacacttggt tttattt 227

```

<210> 336

<211> 540

<212> DNA

<213> Homo sapiens

<400> 336

```

agctccccgc ggtggcgggc gaggtacaga gtctaattccc tttctatgta gccaccagca 60
tgacagcacc cagcaacttt ctgcacagggt gctcgtggtt ggtgccttcg ccaaagtct 120
atgcacatca tgctgtttct actcttgga tttccaaaag gaccacagga tattggtccc 180
attctattca gtttcttttt gcacagtata tgccctgaatg gctctgggtg tggggagcaa 240
atattctcaa ccgttcacta cgtaagggaag ccttatcctg cacagcctga gtctggatgg 300
ccacttgaga agttttgcca actcctggga ccctcgatat tctgacattt ggaaaaacac 360
atttaattta tctcctgtgt ttcattgctg attattcagc atactgttga ttcgtcattt 420
gcaaaacaca cataataaccg tcagagtgtg gtgaaaaacc ttaagggtgt gtggatggca 480
caaggatcaa taatgcctga ggctgattga cgacatctac atttcagtgc tttttcccta 540

```

<210> 337

<211> 297

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(297)
 <223> n = A,T,C or G

<400> 337
 cgaggtgggg ttttctgggc agtggctcca ttgcttcagt cttcatgatt ggtaagaatt 60
 gaataggccc atttgtcagc tttggcttgt gtttctcgg ggggtgggct gatgggactg 120
 ggggacagga gccaagggtc cccaccatgg gggnccttga gccgcctntt ntttaagtag 180
 tggctcggcg cttaaactg aagctcatcg tcacaataa ccacgatgga tgcggaaaaa 240
 gtttgctgcc ttttttggga atgtcccaat nttccacatc cctggccgac ctgcccg 297

<210> 338
 <211> 207
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(207)
 <223> n = A,T,C or G

<400> 338
 cgggcaggtg ctgattttta aaactaataa cttaaaactg ccacacgcaa aaaagaaaac 60
 caaagtgggc caaaaaacat tctcctttcc ttctgaagggt ttacgatgc attgttatca 120
 ttaaccaagt cttttactac taaacttaaa tggccaattg aaacaaacag ttntgagacc 180
 gttcttcac cactgattaa gagacct 207

<210> 339
 <211> 56
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(56)
 <223> n = A,T,C or G

<400> 339
 cccggggccc ggggcccccc cctcganggg caccgggtat cgataagctt gatata 56

<210> 340
 <211> 373
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(373)
 <223> n = A,T,C or G

<400> 340
 cttagggcga attggagctc cccgcgggtg cgcccgaggt acccgagccc cgcttaccct 60
 gcctttgcat gtgggtcagg atatgtgatc tccaaggaca tcgtcaagtg gctggcaagc 120
 aactcgggga gggttaaagac ctatcagggt gaagatgtaa gcatgggcat ctggatggct 180
 gccataggac ctaaaagata ccaggacagt cagtggctgt gtgagaagac ctgtgagaca 240
 ggaatgctgt cttctcctca gtattctccg tgggaactga cggaactgtg gaaactgaag 300
 gaacgngcgt gtgatacctt tcgatgtcaa gcaagataac aggggacttg aattagcaga 360

gtctaaaatc agg

373

<210> 341

<211> 504

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(504)

<223> n = A,T,C or G

<400> 341

```

cagaattcag ggcctttttg ctgccgttgn caatgaactc tcggagttgg ccctgcctta 60
ttaaatttta atcaattatc tttctaagca tcaagatggc catgtaaaca ctgtttttaa 120
gaccacgtct accggctggg cacgggtggat catgcctgta atcccagcac tttgggaggg 180
caaggcagga ggattgcttg agcccaggag ttcaagacca gcctgagcaa catggcaaga 240
ccctgtctca aaaaaaaaaa aaaagtatac tacctgattt ctaaaattac caaagtggcc 300
ccttttcccc ccattattta aaaaatattg gtctaagctc tgcgcttaag ggctggacct 360
ttntttttta aaaatgttat atttttataa catcttatta ttaccaccac caaaaaagga 420
ctcagttttn tcccacttta cactttnttt ntgtccccaa aagtnaatna ctggagcaat 480
tatctgcaat ttttttaaaa tgng 504

```

<210> 342

<211> 452

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(452)

<223> n = A,T,C or G

<400> 342

```

ggcgaattgg agctccccgc ggtggcggcc gcccggnacg gtactgtcct gagggtggtt 60
gaagggtggg atgccgctga tacagggaca ggcagatgtg canacactta ccaccctggg 120
ccaccgatcc caccatcatc ttccacctcc cagagctctt gagataagac cttagaagg 180
atccttgggc ttgcattaaa accactttgc tgtccgtgga ggtctaacag gacccaatag 240
ttgttactac aaaagtgttt ttgcaaatac ggcaagttag aagaaggngg taatatgaat 300
attctttaga aaaactcaaa tccatcggct tatcaatacc caaagtctga ggctaccag 360
ggcacaattt ggtccatgga atgctnagtg gaggaagcac tcntnttaag gctnccctg 420
acttccaaga gcatttancc ntcccttttt ng 452

```

<210> 343

<211> 334

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(334)

<223> n = A,T,C or G

<400> 343

```

cgggcaggta ctcttaaccc cattagaact gtttttcctt ttgtatctgc aatatgggat 60
ggtattgttt tcatgagctt cttagaattt cacttgcaag tttatttttg cttcctgtgt 120
tactgccatt cctattttaca gcatatttga gtgaatgatt atatttttaa aaagttacat 180
ggggcttttt tgggtgtcct aaacttacaa acattccact cattctgntt gtaactgnga 240
ttataatttt tngataaatt tctggcctga ttgaaggaaa tttgagaggg tctgcattta 300
tatattttta aaaaaattga taggggtttt aaat 334

```

<210> 344
 <211> 385
 <212> DNA
 <213> Homo sapiens

<400> 344
 tgggcgaatt ggagctcccc gcggtggcgg ccgcccgggc aggtactaat aaactcaatg 60
 atctagcaga aatttgctga aagaggggcaa aagaggacaa agatgatctt aaaaaaatga 120
 actatattgag tggaaatttg aggaatgtga aaatgtcagc caggaattct ttttaagaaac 180
 agttttctgag catagcaggg taggggaaga tgaatccttt gctaagactt tagaaagacc 240
 taggcagtgc cttccagaac ttccagacag acaaaaggca ctctccagat cttaaagaaa 300
 tgtgtaacag aaactcttat tgttcaaaag gcaggatcta agaggcaagg atttaagatc 360
 taaaagtgtc gtcccatagg aacct 385

<210> 345
 <211> 263
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(263)
 <223> n = A,T,C or G

<400> 345
 ctactatagg gcgaattgga gctcnccgcg gtggcgggcc agccctgcag gcctctgccc 60
 tgaaggcctg gggcggaag aaggagaacc tgaaggctgc gcaggaggag tatgtcaagc 120
 gagccctggc caacagcctt gcctgtcaag gaaagtacta caacgaggcc acaggaggaa 180
 attatgtccc cagagcgggtg ctggtggacc tggaaccgag caccatggac tctgtccgtt 240
 ctggccccc tt cggtcagatc ttt 263

<210> 346
 <211> 377
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(377)
 <223> n = A,T,C or G

<400> 346
 ttagggcnaa ttggagctcc ccgcggtggc ggccgaggta cccgagcccc gcttacccctg 60
 cctttgcatg tgggtcagga tatgtgatct ccaaggacat cgtcaagtgg ctggcaagca 120
 actcggggag gttaaagacc tatcaggggtg aagatgtaag catgggcacg tggatggctg 180
 ccataggacc taaaagatac caggacagtc agtggctgtg tgagaagacc tgtgagacag 240
 gaatgctgtc ttctcctcag tattctccgt gggaaactgac ggaactgtgg aaactgaagg 300
 aacggtgcgg tgatccttgt cgatgtcaag caagataaca gggacttgaa ttagcagagt 360
 ctaaaatcag ggcaggc 377

<210> 347
 <211> 478
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(478)
 <223> n = A,T,C or G

<400> 347

```

gcnaattgga gctccccgcg gtggcgggccg aggtgagaaa gtgatataca tactacataa 60
ttgttctgtt ggttaatatg cccaaaataa tagttactat cattacatct tacagaaaca 120
aaaactttta gcttattact ttccagaagg aaaaaagtat cctataactg aaaataaatt 180
ttcgccacaa tagcaaaata ggaaaaaata aatcttcctg aaacattagc aagagatttt 240
agtttttatt tgtttaaaga gtatagggtg ttgtttcaag aaaagacttt tgctaaaagc 300
agctagcaat aagattatgg ctatcaaacc agtttcttct atagaaagtg accattcttg 360
aagtgtactt gttttttgaa agtttcttag aacagtctca gcattctaaa cagtctgtag 420
ttctacatat ttgngtngtg caatcttggg caggaaaatc actaataaca gggaaaca 478

```

<210> 348

<211> 261

<212> DNA

<213> Homo sapiens

<400> 348

```

ccgcggtggc ggccggggcc tgtgaaagga aaggtcattc ttctgacct cggccactgc 60
agctctgcaga ctctccaagg agctggactt ttccaaacc agagttggac caaatcttt 120
gcttgagat tccgattttt gtccagccaa tgagtgaacc ttgctttcat ctggcacaag 180
gtccatgctc ttccagggtt tcaaattaat tgattcaggc tgcttgccg gtgtcacaga 240
tctgaagttg atgtgctacc t

```

<210> 349

<211> 439

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(439)

<223> n = A,T,C or G

<400> 349

```

ttagggcnaa ttggagctcc ccgcggtggc ggccgcccgg gcaggtagca ttccatcagt 60
tagctgcagc atcaacattc gtgaaggctt tgcttcccaa ggttttgagg ttacttggtc 120
ttcagctgta actagatcat ttgttgtatt ctttctctc aacttctgta tctgggagta 180
tgcanggctg acttacatca accaaggaat taatctgcag agcataaaat ccatttaatt 240
ctccttttgg aatttctaaa atgccatcgg gtaaaagagg atgctccaaa tccctcagat 300
cagtaaggag ccactgctca aacacttggt tattcatttg ggcctgactc aagttaacat 360
tattattttc ttcttgaatc cagttaatac aagcttccag ccacatcggg agggacctcg 420
gccgtcttag aactaggtg

```

<210> 350

<211> 396

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(396)

<223> n = A,T,C or G

<400> 350

```

agctcncgc ggtggcgggc gcctccctgc tntggcttgt ttcgttgtag gctgctcttc 60
tgtctgtgac tcaatctcta attctcgcct tgccacataa tncccaagt agaggatcat 120
ctgtgtgtag agcctgaagg tcatcataaa tctctttttg nagatctttt ggcaaagtca 180
aatagctgtg caatcgaaag cagtgcacag tgaaattctg cacctttaat tatgcttaca 240
gaatttttgt agatgatcca tgccaactcg cccttaagga tttcttcaga ataatcagga 300
ttctccacat ccatactggc tttttcaaat tcttccttct ccttcctcag tttttcagca 360
tgcatcagct ccatoctaaa gtattnttta taaagt

```

<210> 351

<211> 460
 <212> DNA
 <213> Homo sapiens

<400> 351
 acctccactg ctttggttg tttcgttgta ggctgctctt ctgtctgtga ctcaatctct 60
 aattctcgcc ttgccacata atcccaagt agaggatcat ctgtgtgtag agcctgaagg 120
 tcatcacaaa tctctttttg tagatctttg gcaaagtcaa atagctgtgc aatcgaaagc 180
 agtgacacgt gaaattctgc acctttaatt atgcttacag aatttttgta gatgatccat 240
 gccaaactgc ccttaaggat ttcttcagaa taatcaggat tctccacatc catactggct 300
 ttttcaaatt cttccttctc cttcctcagt ttttcagcat gcatcagctc catcctaaag 360
 tattctttat aaagttttgg gcactctgga tgaaagcgca gtgcgcgaag aaataagttg 420
 ccttgcgctt tctgaagaca atcgatcttt catttcccat 460

<210> 352
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 352
 cgcttgatat cnaattcctg canncgggn gatccantac ntttagagng gagcgggtcg 60
 actatgatga gtcnntgnag ttcattgaagg gtggtggagt agatgctgac ctttaccag 120
 aagctgtctt atgcccaact ctccaaactn cagcngacgt nctggggtct cgggnttcca 180
 cctcccagag ctcttgagat aagaccttaa gaaggatcct tgggcttgca ttaaaaccac 240
 ttgctgtgcc gtggaggtct aacaggaccc aatagttgtt actacaaaag tgcttttgca 300

<210> 353
 <211> 404
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(404)
 <223> n = A,T,C or G

<400> 353
 ccgcgggtggc ggccgaggtg ctgacagcag cactttgagg catacttaat ctattcacgg 60
 gtgttggggg agcaactgtct gatcggggnc tagaaatacc taagaatgca tccaccagac 120
 agctgattcc acgcatggca cgaaaaaata tttgaggcag natgtttaag gcagggatac 180
 tgattcaatt cttgcggcat tccgctcaca ttcaagaact gttcctgaaa tttgggagta 240
 gggcttataa tagctgggtt actcaaatcc acaggattac ttaacatgtg taaaaagcga 300
 aaccatgtct gtgcaacaca ctcatatcc atttctggag ggatcagact ggcatcttca 360
 tcgggaactt taaatgcagg aaatgaagga ccatatgtaa agcg 404

<210> 354
 <211> 261
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(261)
 <223> n = A,T,C or G


```

<400> 354
nccgggcagg tttttttttt tttttttttt ttttttttga gtgacanaag ctgcttttta 60
tgtaggagca cacagaaaat ccccgaggag ccaggagctt tcagggccgg aggagggttg 120
cccaccgcat acncagtaat ggggaacaga aaccgggcag gctgcatttg gtgatctcag 180
ganaaaggct tcctcagtgt gtcgaaagaa accacacgcg gcctggggca naanacctgc 240
ccttagggng gccgagacct n 261

```

```

<210> 355
<211> 309
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(309)
<223> n = A,T,C or G

```

```

<400> 355
gtggcgccgg aggtacctgg gcctgaagct gggacccgca ctgaaactct gctaccacat 60
tgacaaactg aagcaagcca agttctgacg ttnttaaaaa gacagaagcg aaacccaaaa 120
caacagatcc caagattatc ttctgcctta ccaatttccc gccaacatca caaaatagac 180
tctnctctta aaattaacag ccacagagac gtggtctttt tataaaactt gtgaatcttt 240
gccttttgaa gaatttaaca tggacctttt cgagaggctc ctctgtgttc ataatttgcc 300
aaaaaatta 309

```

```

<210> 356
<211> 659
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(659)
<223> n = A,T,C or G

```

```

<400> 356
nggtactggc cgccatgagg aaagctgctg ccaagaaaga ctgagcccct cccctgcctt 60
ccctgaaata aagaacagct tgacacacaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggagaa anaaaaaaaa aanggnntnt 180
tacaaaaggg aanaanaaaa aaanaanaa annntttntn tttcccgggg gggnnncanc 240
gggggggnac nnaantcnc cnntnnnggn gggtttnana cccccctna tnggccttgt 300
ttaaaaaaca tcngnntggn aaaaacctgg nntnaacnaa annaannccc ttngnncaaa 360
ccncttttcc ccagttggn naataaaann nagggcccna nnaacaggcc nttaaaaaaa 420
gntggcnaac ttanggnaa aangngacc ccctttaatn gcnaatnnaa gcnnnggggn 480
nggggggtan ancncatna ctnccttnna attgcnnggg ccttaceccc natnttnnaa 540
attatnccct ttcttttttg cccaattgcg ggtttccccc naaaaagttt aaaaangggg 600
tnctttttag ggnngcccat aaaggnttaa gggccctnnn ccccnaaaaa atttttttg 659

```

```

<210> 357
<211> 633
<212> DNA
<213> Homo sapiens

```

```

<400> 357
ctataggggc aattggagct ccccgcggtg gctgccgagg tacttttgca aaaagtcgac 60
tgtgactgtg tagcattatg ttctgtagaa tttttttcaa gtagcataat ttatttcatt 120
ggtgtgaaaa cagccaaagg ttccaatata ctcacaaatc atttatgcc aacatctgag 180
ggcaaaattt agccggtgtt atttactaga ttcttccctt tgaactcaca gactcaagag 240
acagaccaag agttcttata tactcaccac agcggacca tccaagtggc attttttaga 300
aaggttgacg catttaatgc catgtggtat gtctgttcgt caagtgggtg gcaagggaat 360
atccaagctg gcattttgga tatgatgggc cttttacttt cctgagtgc atgccacatg 420

```

```
tcaagaaata ctgctcccca cccccccact cccatcacat ttacgtgaac aatttttcatt 480
tagttatttc cgttccata tgggtgttaa acagtcgtat taaataaaga ttatttctag 540
ttttcagtg taatttaaag gagaggatat gtaataattg cttattagat acttatccaa 600
atgaaatata acagagttta cagtacctgc ccg 633
```

<210> 358

<211> 336

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(336)

<223> n = A,T,C or G

<400> 358

```
gcggcagccg gcagntttgc agcgggtgtgt tctaggctcag tggcttcaaa gactccagtt 60
ggattcattg gactgggcaa catgggggnt ccaatggcaa aaaatctnat gaaacatggc 120
tatccactta ttatttatga tgtgttccct gatgcctgca aagagtttca agatgcagg 180
gaacagtgtg gtatcttccc cagcagatgt tgctgaaaaa gctgacagaa ttattacaat 240
gctgccacc agtatcaatg caatagaagc ttattccgga gcaaattggga ttctaaaaaa 300
agtgaagaag ggctcattat taatagattc cagcac 336
```

<210> 359

<211> 540

<212> DNA

<213> Homo sapiens

<400> 359

```
tagggcgaat tggagctccc cgcgggtggcg gcccgaggta catgtgaaga gtctctgatg 60
tgatgatttt cagctggaat tatttttgat caaatgaatc tggagaccga ttcattgtga 120
gcacctgaat aaaatgaaaa ctttggttcc ccttggtaac tgggtgggtg gtttctgttc 180
actggctctc tacatttgcc aggattcttt ggggaggcag tcacaggagt gaggtgcagt 240
tgcttttccc acgagttagg ggaactcctg ctgcctgaac acaaacaacc ctgacatgtt 300
cccttctcca agaggagatg tgatgacaat tgtcttttgg cacaattgaa ctctagaaac 360
tccatttttg tttttccaga ggtctgaatc ccaaataaca gaattttgtg cagtagggac 420
caggagccct agtaaggatg ggtggccctg gtggccagca atgctcacta ttactgctca 480
aagagagggg gccagtcatg ggaagagggc tagaatttcg gggttcaaca aacttgggta 540
```

<210> 360

<211> 257

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(257)

<223> n = A,T,C or G

<400> 360

```
aggtccagca gtttccagcc agtccccaca gcctcatcag ctctcttcac cgttttttga 60
tactatcttc cccaccccc agctacccat aggggctgca gagttataag ccccaaacag 120
gtcatgctcc aataaaaatg attctaccta ccnaaaanan aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaanggaaaa aaaaaaaaaa annaaaaaan aaaaaaaang 240
tttgtncntg cccgggn 257
```

<210> 361

<211> 337

<212> DNA

<213> Homo sapiens

```

<400> 361
cgggcaggta cctgtgttat gcctgtgctc cagcagctca ttgcctcccg catgaactct 60
tctaggtttg gaaattccac tttaaatatg aggaaatgtc tgctcatgta gatgatatga 120
cttgccctag aacacaaatc tagaaaatgc agcaaccaga attttaccca agtttggtga 180
acaccgaaat ctagcctctt cccatgactg gccccctctc tctgagcagt aatagtgagc 240
attgctggcc accagggcca cccatcctta ctagggtccc tggccctac tgcacaaaat 300
tctgttattt gggattcaga cctctggaaa aacaaaa 337

```

```

<210> 362
<211> 617
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(617)
<223> n = A,T,C or G

```

```

<400> 362
ctatagggcg aatnggagct cccgcggtg gggccgagg tgagaaagtg atatacatatc 60
tacataattg ttctgttggg taatatgccc aaaataatag ttactatcat tacatnntac 120
agaaacaaaa actttaagct tattactttt cagaaggaaa aaagtatcct ataactgaaa 180
ataattttcg ccacaatagc aaaatagaaa aaataaatct tcctgaaaca ttagcaagag 240
atttttagttt ttatttggtt aaagagtata ggtggtggtt tcaagaaaag acttttgcta 300
aaagcagcta gcaataagat tatggctatc aaaccagttt ctttcataga aagtgacat 360
tccttgaagt gctactgttt ttgaaagttt cttagaacag tctcagcatt ctaaacagtc 420
tgtagttcta catatttggt gttgcaatct tgggcaggaa aatcactaat aacaggaaac 480
agaggccggg cacggtggct aaccgcctgt cttccagca ctttgggagg ctgaggtggg 540
cagatccaag gtcaggagtt ttgagaccag cctgccaaca ngggtgaaac ccccatctnt 600
acttaaaaat accaaaa 617

```

```

<210> 363
<211> 360
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(360)
<223> n = A,T,C or G

```

```

<400> 363
cccttagcgt ggtcgcggcc cgaggtacaa gctttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt ttttttgann aacatggntg nttatttnac ctngggggca 120
ggaggggtng ntccnaaaag aaantcanng angggngana aggggggggn cattttanaa 180
nattggggng gntaaaggaa aattncnnc nnggggggtt nntntntng nnncaaangn 240
ggngnaaana angantttta gagntaacn tntnatncna aatnactng naaaangaat 300
ttnanaagaa aatggcataa gttaaggggg gagcnggccn tttttcactt ntttttggg 360

```

```

<210> 364
<211> 475
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(475)
<223> n = A,T,C or G

```

```

<400> 364
cgggcaggta ccaaccaga tagcaacatc cactaatcca gcaccaattc cttcacaaag 60
tccttccaca gaagaagtgc cgatgaatat taattgttga attcatttca gggcttcctt 120
gggtccaaata aattatagct tcaatggggc aaanagggtcc tгнаacattc agctccattg 180
naatgtggaa aatacccaac cgcctgnaca gcatgcattt tcttgcaatt tttagcccga 240
aagntgagnc nacntgtna ccanaaaact tnttaanagc caccttattt gnaancgcna 300
tgcttttggg aaaatgggtac ccttngggcc gccaccgcc ggtggggaag cctcccaaat 360
tccggccctt atagtnggag gtctttantt tacggccgcg gcttcacttg gcncgnncgt 420
ttttaacaaa ncgtncgttg gactgggnga aaaaccctt ggccgttacc ccaaa 475

```

```

<210> 365
<211> 230
<212> DNA
<213> Homo sapiens

```

```

<400> 365
ggcgaattgg agtccccgc ggtggcgggc gaggtactgg cctccccgga gccactgtga 60
ccaggccttt gagctcttgt catctgtgga gagaatcatg caaattttta aagttcttcc 120
aagagacttc catgtcctgg ttattaacaa aaaaggaaaa atgtaataat tgatatgatt 180
ttgtaaaagt atttttcttg aaataatcta aagtttataaa cattatatta 230

```

```

<210> 366
<211> 669
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(669)
<223> n = A,T,C or G

```

```

<400> 366
cgaggtacat ccggctgatg gacagtgtg gactgaaggg gggccgtggc agtgcttcat 60
ggtccanaag tgcaagctgt gtgcaagaga aaattccatc gagattttta gcagcaccat 120
naagccttac aatgctnaaa gaccatgaaa actttaagac aatatggaag tttgagtgcc 180
gggccttgaa ccagttgatt tcagcccagc ttgggttttn ttgctgaagg tgtggaagtn 240
agggcagcct taatgacatt aatntgcagg aaaaggctgg ctgctntta tnaaaaggcc 300
nagagttttg gggaatttat aaggtcnccc ccagtttggg aagggtgat ccctttcntt 360
ccaagtggcc ttaaaactga aaaaggcaaa gtacttgccg gggggccccc acggggggga 420
ctccaattnn ccataanga ggnnattacc cccctccttg cccggttttn aaacgnnnga 480
ttgggaaaac ctgggtttnc caaatantgc nttggaaaaa tccnttttc caggtggtaa 540
naanaaaagg cccnacaatc nctttccana attnccaact taatgcaatg ganccctttt 600
acggccttaa acccccgggg tnnngtccca agnnncnttt ntttnngnct tnaccnttt 660
ttttttttt
669

```

```

<210> 367
<211> 420
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(420)
<223> n = A,T,C or G

```

```

<400> 367
cgggcaggna cagtgggtatt tcatataaaa tatacacttc catcctactc atgtaaagta 60
gcacagcagt gaacaagata ccctatgtgt atgaaaatat cctaattgtg ttcttggaat 120
ttctaaagtc acaccaaata aaaatcntga aataaaaaca taaaccccat gacaaaanga 180
aaaaccggga ggggggaattt ccttgatgga cctagacctt cacctcggcc cgccaccgcc 240
gggtgggagc ttccaattcg gccctataag tgaagtcgta tttaccgcgc cgcctcactt 300

```

gggccggtcg gttttacaac ggtcgtggac tggggaaaaa ccctgggcgt taccccaacn 360
 ttaatcgctt ttgcagcaca tccccctttt ctgccaggct tggccgtaat agcgaagaag 420

<210> 368
 <211> 339
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(339)
 <223> n = A,T,C or G

<400> 368
 aggttttttt tttttttttt ttgtcataaa tacacaattt tatttgctat ttccagggga 60
 aacttaggca ttaaactgta agctgataaa atacgatacc taaaaaagta taaaagtata 120
 aatatccctt tagaataaat tttagtgaat taagtcttaa tatctttaaa ttaaaaaaac 180
 ccacaaggcc tatctactat gtcaagggtc aaaaaatcaa aacaacgcta agcggccagc 240
 agtccccag gaggaggat gccccaggga gccccagcgg cccgccaccc gcgggnggga 300
 gcctccaatt ccgccctata gnggagtcgt attacgcgc 339

<210> 369
 <211> 431
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(431)
 <223> n = A,T,C or G

<400> 369
 aggtaccctt cagcatccca ttctactgca acgtggccaa tgccttcctc gtagctcctc 60
 agatctactg gttctgnetg ctgtgcagga aggcagtcgg gctctttgac actccccaag 120
 ccaaaaaagga tggctaaaat gtccttgga gtcaggcgca gnetcacacc caggctgcct 180
 cctccactca gnnatttcca tgggaccaca attngttgcc ctgggttagg ccctcnagaa 240
 ctttgggtga tcnngataaa gncggattg gaatttgagt ttttctaaag gaatatttca 300
 tattaccctc ctttcttcta aactttgcc ttatttgcaa aagacacttt ttgtagtaac 360
 aactattggg gtcctgttag accttcacgg gcacnagcaa aagnggggtt tttnaatgca 420
 aagncccaaa g 431

<210> 370
 <211> 589
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(589)
 <223> n = A,T,C or G

<400> 370
 agactatgtg caaaaagccc agaccaaaga acaggcagat ttgacagtag aagcattggc 60
 aaaagctacc tatgagcggc tctttcgctg gctcgttcat cgcataata aagctctgga 120
 taggaccaa cgtcagggga gcatctttca ttgggaatcc tggatatttg ctgggatttt 180
 gaaatttttg aggctggaac tccctttgga acaacctttg catcaacctt ccaccaatg 240
 naggaagcct gccagccagc ctgttcaacc cancacccat ggtttatcct aagaacaagg 300
 agggaatacc cagccgcgga agggcatcgg agtggaact tcattcgatt ttcgggcctg 360
 ggatctgcag ccattgcacg gaccctaata agaagagacc tgcgnaacce tcctgggngt 420
 acctcgcccg ccaccgcgg tgggaagctc caaatcggcc cctatagtag gtcgtattta 480

```
ccgccgccgc ttcacttggc ccgntcgttt tttacaaacg tcgtgactgg ggaaaacccc 540
tggcggttac ccaaaactta tcgcccttgc aagccacatt cccccctt 589
```

```
<210> 371
<211> 632
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(632)
<223> n = A,T,C or G
```

```
<400> 371
aggtacagaa tatgtagtga gtgtctccag tgtctacgaa caacatgaga gcacacctct 60
tagaggaaga cagaaaacag gtcttgattc cccaactggc attgactttt ctgatattac 120
tgccaactct tttactgtgc actggattgc tcctcgagcc accatcactg gctacaggat 180
ccgccatcat cccgagcact tcagtgggga gacctcgaga agatcgggtg cccactctc 240
ggaattccat caccctcacc aaccttcact ccaggnacag gagtatgttg gtcagcatcg 300
tttgccttta aatgggcaga ggagggaaaa ggttccctta atttggattt gggccanaca 360
atcaaccagg tttttcttgg atgtttcccg gagggggaac cctgggaaaa ggtttggttt 420
ggcttgggag gaaccccccc caccaggcc cctaacttgg aatccaaggc ctttggggga 480
atggccttcc cctggcntgn tncnaccang gtggaaggga ttantttanc aagggnaant 540
ccacctttta ccgggnagn aaaaaccaag ggaaggga aaattaaggc ccnttggnt 600
cccaagggga agttttcaac ttgngggccc tt 632
```

```
<210> 372
<211> 547
<212> DNA
<213> Homo sapiens
```

```
<400> 372
ccgcggtggc ggccgcccg gcaggtacat aaagtgctag aaaatcatgt tccttgtcct 60
gagtaagagt taatcagagt aaatgcattt ctggagtgtt ttctgtgatg taaattatga 120
tcattattta agaagtcaaa tcctgatctt gaagtgctt ttatacagct ctctaataat 180
tacaatatc cgaaagtcat ttcttggaa acagtgagg tatgccaaat tttatatgaa 240
tttttcagat tatctaagct tcagggtttt ataattagaa gataatgaga gaattaatgg 300
ggtttatatt tacattatct ctcaactatg tagcccatat tactaccct atgagtgaat 360
tggaattgac ttttcattgt aaatcattgt ggtctatgag tttacaatac tgcaaactgt 420
gttattttat ctaatccatt gottaatgag tgtgtttttc catgaatgaa tataccgtgg 480
ttcatatgtt agcatggcag cattttcaga tagctttttg tttgttggga agttgggggt 540
ttggggg 547
```

```
<210> 373
<211> 782
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G
```

```
<400> 373
gagctcccc gcggtggcgg ccgaggtact taaaattaca gctgactcaa attgcctaca 60
gaattatttg atgtagaagg ctagttgtnt acttcagatc agcaggacag tngggctttc 120
agactcatga ccactgagtt tgcttgtgtg gaaactgttg tttcatccaa catatgcttt 180
ggacatggat tattattcca ttcaaattgg attacagact tctttgagga caggacaaac 240
ttatctntca tgggggtttt ttagaatact tttattaccc aaggaagaaa ccattgccca 300
nttgntacca tttancttt ttaaagcaga gattaagcct tttcaatata tgnctttatc 360
cngggacatt aagtagtttt ttaatttgnc cagnntccgt tccatntttg taacaactcc 420
```

```

ctgatgtttn ttaaaaccac ctcttctntt ttaagcnggg ggttnggaca gnetgaccca 480
accttgggct ttnggggtgg accatggtan ttnanacctt antnaatcag gcaaatcctt 540
ttgaactgng ggnggagaag ctctntttac tgnggggggc ttaagctttg ttggatgaaa 600
nccttaactn acagggnctc catntaaana atggaaccag tgcnnggggaa agcaaagcca 660
aaatatngag gngnttgaat cctgtnacag ngtttnggcc ctggaccacc cgcnnggaag 720
ctagaatatn cctggacttt cagtntggga ccanaaaacc ctttttggtt aaaaaaaaaa 780
aa

```

<210> 374

<211> 291

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(291)

<223> n = A,T,C or G

<400> 374

```

cgggcaggta caagcttttt nttttttttt ttttttttnc atgttaagaa gtttatttta 60
tagaccacag canaaattnc agccaagttt ttttagaggaa atcacctggg tgtggcaaac 120
agacagggct tccattattc taccttttagg gatttcanta gtataaaacc ggttggtttt 180
gatggggatt acagcacatn atnagggcag atgcctaatt ccgaataaca tcaacgacgg 240
ctgcaatttg cacagttctg ttggtgtaaa agtcccagta gaagggtttt g 291

```

<210> 375

<211> 443

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(443)

<223> n = A,T,C or G

<400> 375

```

aggtacaata cttcatatac tgcaggaaaa ttaattgtag gtctagtcac cagcttaatc 60
agggatcctt ttccatttag cttttattaa taaaaaatca caattaggtc ataaataaac 120
aggcaaatta ttaattcatg atttgaggct taaggatgaa aacttgcaaa attagtttga 180
tatacagcaa aagttataca acacactaaa accaactggt caatagtttt tgccttgtgt 240
gaactgcca tagtgaaaaa ggaacaaatt tttagtgtat aaagatcaat aaactatatt 300
ttggaacttt tcaagaggaa gaaggaaaaa agatttcaac aaaattaagg gcaaatacag 360
atcctaacaa aggcaccttg acatcaggga ggccatgtgc ttgctatgtg tgaaagttga 420
tnccccacaa catacagaaa aca
443

```

<210> 376

<211> 251

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(251)

<223> n = A,T,C or G

<400> 376

```

aggtacaagc tttttttttn tttttttttt tnnttngggn cagtctttta tttaaaaact 60
ataaacaggt caccaaagta aataaagcca ttctataact aaactgttag gtntatattt 120
tttactgnac attctaagga cacaannaaa aaatnggtgg ttngggaggc cttccacatt 180
ttttggatgc taatagaaca ggcaataggc agttataaat ggatacattt cacgctgagg 240
gaaaaaagac a
251

```

<210> 377
 <211> 516
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(516)
 <223> n = A,T,C or G

<400> 377
 naattggagc tccccgcggt ggcggccgcc cgggcaggt cctgtctgaa gaggacatt 60
 aaactttgaa aggacttcac tgctccttta cgatattcca aatagttttt tacattggaa 120
 aagctaattn ttgggattct ttcatacatt ttcatacaaaa ctttcagtgt gattatgtat 180
 tcatactctc agtttaatat gtcagtataa tagatattgt tcaaaagttt cttgttgcta 240
 aagtgggtga atctgtaca cagatgaata gctagatgtg gaaagagata tgtaaacaag 300
 aaacctttgg gtattgnttc ttaaagtaaa tattgggaca atcatggtaa gcaaacttag 360
 ttctgtaact gcatttttca ccttaaaagt taaatgaaat gcatgatggg attttattcc 420
 ttgaattatg caatgcanca ttacatgta aatagcactg gtcataact gatgtatatg 480
 ggtatctggg ttatatctat tnttatggaa actcta 516

<210> 378
 <211> 602
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(602)
 <223> n = A,T,C or G

<400> 378
 ggcgaattgg agctccccgc ggtggcggcc gcccgggcag gtacacaagt tagttcgatg 60
 acatcttggt atttgagaac agtaaaaggt gtgtcattgc ctcatgattt atcatagtca 120
 ttactaaggg ttccagagag aatctgggtg gaagcactat cctttcagac actaaggcct 180
 ttacctagtt gctccccctac cttctgtcgg aataggatta ttcccatgca cctctgggta 240
 ggtataggtg gtagctattg aacggggatt attttcccca tggcacaagg ggaacactc 300
 ttggataacc ttcaacaatg aggccttgct aagtggccag acttgggatt tgatcttcct 360
 cacttggtat ttattaagtt taagccttat tcaagtatct ctaattgcaa tagatatagt 420
 tcctgtgact tctaaaaaaa attcctggta atgctgagac agtatctttt ttgncagnt 480
 attaatTTTT gggcaaagat taacctgagt cttaaaagca tttatttgng ggaatgcccc 540
 actggaagtg tcttctccat tggctaagta cctnggccgt ctagaactag nggatccccg 600
 gc 602

<210> 379
 <211> 547
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(547)
 <223> n = A,T,C or G

<400> 379
 cgggcaggtg aagtccttag tgtctcattg cagataattt ttagcttagg gcctgggtggc 60
 taggtcgggt ctctcctttc cagtcggaga cctctgccgc aaacatgctc cgccagatca 120
 tcggtcangc caagaaacat tccgagcttg atccccctct ttgtatttat tggaactgga 180
 gctactggag caacactgta tctcttgctg ctggcattgt tcaatocaga tgtttggtgg 240
 gacaagaaat aacccaaagc cctggaacaa actgggtccc aatgatcaat acaagttcta 300


```

ctcaatgaat gtggattaca gcaagctgaa aaangaaccg tccagatttc taaatgaaat 360
ggtttactat acccttcttt aaaatgaagg ttttccaaaa cccatttccc acaatttttc 420
cttaancaag aaatatttnt cctttaaagc atgaaatcat ggtggagaac tctttgggaa 480
tcttttattg gagattccat ggttaaataca atnaataact ggaacttgna aaaaaaaaaa 540
aaaaaaaaa 547

```

<210> 380

<211> 691

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(691)

<223> n = A,T,C or G

<400> 380

```

cgccccgggca ggtaccttgc ccaagggtcac acagggtcaca tagtaataag aaccgagatt 60
caaagctcta aaatcagtag tcttcaccat ggcaccacac tgcttcaaac tgaagggtag 120
gttgagctgt gactagaaag acacaagcat ggctacatat ctgggagttg caactctgga 180
ttttttaagt tggaattggg tcacctataa ttatctgtat tcatctataa ttctgaaact 240
aaattagatg gctgttttga ttcttacct tttagacagt ggtagattat tataaattat 300
tcaggtatca agatcttgta taatcaaaat actctttttg gtnaccaaaa attttttaaag 360
tgcattctta atgagtgcag caaccgaatt tgggtggnaa cataaaagac cttcggcccc 420
cnccgngggg gagctcaatt tgnccnttag ggggtggatt accccccctt ccttgccctt 480
gttttanaac ngngggcnng ggaaaacccn ggggtnccca aataaaannn ngtganaaaa 540
ccccttttnn nnggggggnt aaaaaaannn cccccnccg nntcctcca aaannnnncn 600
nttgnggggn ggaggcccc nttnggnnt naaaaanngg gggggngggg gtcncnnngn 660
nnnttttttn ccnnccnncc cctttttttt t 691

```

<210> 381

<211> 731

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(731)

<223> n = A,T,C or G

<400> 381

```

aggtacaagc ttttnnnntt tttttttttt ttttttttca aggttaccaa gaaaaaagca 60
gaagaagaaa tttattttta atttcaaaan gtttngggat ttcattttt tgatttttaa 120
aagttaacat agaaaatatt aaaaaaatgg aaacagntta tttgaattta agctgnccca 180
cagtgtcacc tnnttcagna ggccttttgg cananagggt tgtttcttaa aaanaaaagn 240
ntnttcccgc ttttttntta cnatggaaaa aaacncttct tctccttga aaaacctggc 300
aanacctntt tttctttttt ttaaggnttg ggttaaantg accaanaatt ntnggttcca 360
acatcccaaa ttgggtgttc cananaaaaa agtcccccat tgganttcac ttttngggg 420
aatcaatttt caacanttta aaggttttgt tnttacctng cccggggggc ngccaccgg 480
ggggggggtt ccaaatcgnc ctnaaannng gcggtntacn ncccctantt gcccggtgtt 540
taaaacnttt ggattgggaa accctggngt tcccanttan tngnnttga naantcccct 600
tttccanntg tgaanaaaa agggccccct ttntttttcn aaaattgnnc cctantgnat 660
tgnaccctt tgggcattaa nnnngggngg gngnccann gtntntttt taggcntann 720
cccctttttt t 731

```

<210> 382

<211> 332

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(332)

<223> n = A,T,C or G

<400> 382

```

aggtagacatt atccctacct tcatgttcca gtggaagacc ttagtaaaat caaagatcag 60
tgagttcatc tgtaatatTT tttttacttg ctttcttact gacagcaacc aggaattttt 120
ttatcctgca gagcaagttt tcaaaatgta aatacttcct ctgtttaaca agtccttgga 180
ccattctgat ccagttcacc agtaggttgg acagcatata atttgcatca ttttgtccct 240
tgnaaatcaa gatgttctgc agattattcc tttaacggcc gccacccgcg gnggagcttc 300
nattcgcta tagtgagtcg nattacccc gc 332

```

<210> 383

<211> 383

<212> DNA

<213> Homo sapiens

<400> 383

```

ccgggcaggt actgtctgat gacgggtgag ggcagagttc ttagtgaagc ctctctcaca 60
gtgagaacac ctgtaaggct tttcaccagt gtgggttttt cgggtgggcac tgaagtggga 120
gctattgttg aagattttcc cacacactgc acaactctgg tgactcatct tctcctggga 180
tggggttttc tctcactct cccctggaga atttctacat tgccttcttg atgttggttc 240
actctccaag cttttttgta gctcagagtg ccaataaact cctctggact ttctctgtaa 300
agccttgttt atttctactt cctctgaatc atcccatTTT agattttctt ttttaatctc 360
ggttcttgaa ctcaaaaacc aag 383

```

<210> 384

<211> 371

<212> DNA

<213> Homo sapiens

<400> 384

```

ccgcggtggc ggccgcccgg gcaggactgg tgtgcttagc attgttggtta gttttttatt 60
ctcctttctt aaatttctga aaatgtcaat ttttcaaaat ttacagctgc ccaaactcca 120
aaatgatggt agagaattga ccaagaaaaa taaagaaatc tgtaacagg ccatggatgc 180
ccgggtagtt aaagacatgg caactggaaa atccaaaggc tatggttttg tatcttttta 240
taacaaactg gatgcagaaa atgcgattgt gcatatgggc ggtcagtggt tgggtggctg 300
tcaaatccga aaccaattgg ccactcgtaa accacctgca cctaaaagta cctcgggcgc 360
tctagaacta g 371

```

<210> 385

<211> 306

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(306)

<223> n = A,T,C or G

<400> 385

```

tntataggg cgaattggag ctccccgcgg tggcgggccga ggtacangtg cttctctaca 60
gtaagaaaat actccaaact attttcttaa ttctcttttt tctttaataa aatattttatt 120
ttgctttttc tctgctcaag gggatcattg gcatcccttc tctcttttgt tttttcctca 180
agaatgacac agaaagggga aaaaggaaaa aatatttaat ggaatggaag gtggtcaatg 240
tgtctaccta aacgagtcag agcatcgtca ccataagggg aaatgtacct gcccggggcg 300
ccgctc 306

```

<210> 386

<211> 311

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(311)

<223> n = A,T,C or G

<400> 386

```

gggcgaattg gagctccccg cgggtggcggc cgcccggncg ggtgtacaaa gctaactttt 60
ttnttttttt tnnntntttt catttttttc cattnttttt nnttttaaag ggnnnntggt 120
tancagcatc gctnncttct acccagtaga gatagtanca ctncactttc ctcantcatg 180
anantaaaaa tgnntccaga cattgccaaa tatcttttgg gggacaaaan caccagga 240
agaaccacc ttctanaact tcaaggacc aattaacatc aatcttcaga aaagatagat 300
atttaaagct c 311

```

<210> 387

<211> 331

<212> DNA

<213> Homo sapiens

<400> 387

```

ctatagggcg aattggagct ccccgcggtg gggcgcgccc gggcaggtat caagctgttc 60
acaccatcat ggccaagaaa ggccaaaata gccataggac ttctagaatt tgtggaagat 120
gttttccatg gccctacgg aaatttcctc atgtgcgata ctagtgcga aaacctagga 180
tataatgata agtatgattt gaaaatggtg gatatgagaa aaattgtgcc agagacaaac 240
ctgaaagaac ttattaagga tcgtcactgt gagtctgact tggactgtgt ctatggcaca 300
gattgtagaa ctagtgtga tcagagtacc t 331

```

<210> 388

<211> 388

<212> DNA

<213> Homo sapiens

<400> 388

```

cgggcaggtg ctagaccagt ggagaatttg acaccttttc tttttgtaaa agtttatggt 60
attataccga tagaccaaaa cagcatgtgt aagaggcagt atctgcacta attctcaaca 120
tgctaaacat taactacaat tcactgttgt gagaatattc ctgctcacag caaaaacact 180
ttccttttcta ctgacaacca gtctccaca tcacagcatt tagacatatg ggtaaaatgt 240
tattttctagt gaattgtttg tatcagtttc atgtctaagt ataaattttc tattttaaaa 300
tttaagaacc gtttataatc agtgcttttc caactttggg ttgctctcca taactatgta 360
tttgtgaaag aaaatggtca tttttttt 388

```

<210> 389

<211> 161

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(161)

<223> n = A,T,C or G

<400> 389

```

ttagggcgaa.ttgagctcc ccgcggtggc ggccgaggtc ncttnttttt tttttttttt 60
ttttttttta ctgatcaatc atgttttatt aagggtttct taacattngn gatttttaat 120
gggagnttaa aattagtaaa caaccntttc atttttnttc t 161

```

<210> 390

<211> 189

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(189)
 <223> n = A,T,C or G

<400> 390
 aggtcgatcg ccttttcgac acctctgcct gagcctgctg ctagccctgc ctggttccac 60
 cagactggcg tgtcattgga cagataaacc agtgtttagct tgcaaaaaaa aaaaaaaa 120
 aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa ggcttttacc 180
 tgcccgggn 189

<210> 391
 <211> 596
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(596)
 <223> n = A,T,C or G

<400> 391
 ggtggcggcc gaggtacat gcacaattat atctccattt taataaattt ctctttttgt 60
 ttaaaaccaa gatttaaaaa tgtgttcccc aactatcctg agctcagagc ataaaccttc 120
 cagagtggag catgtgaaag acacagtgcgt gtattttcca tgaatattgt taatggcagg 180
 aactgagagg tatccatgtg gctgaggcta aaaagcccaa gcagggtctt accnggctat 240
 tcttnatctt caccactgga gcctgctctt aaaatgcacc ctgtagcnnt atgaagattc 300
 aaatncagtn cccaactgng cttttgtcca ttttctcttg ctttagcaag tcctattgca 360
 tgggggtaaa actgggttct tgatgagtct tgcaccctct aggaccctt atgttgaagg 420
 cagctccagg gacctcttaa caccattctt ttacattcat tcattccaag tagagagggg 480
 ccttgacaga caagccacct tgcccggggc ggcccgcttn tagaactang gngatcccc 540
 ggnctgcagg aaatttcnat attaagctta nccatcccgg tcnacctcna gggggg 596

<210> 392
 <211> 222
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(222)
 <223> n = A,T,C or G

<400> 392
 cgggcaggta caatgaagta aaaccatcca aatctgacag ctagtgtttt cttatttagc 60
 cggagtgaga agcaagaagg ccctggacac agcaatatct ctgggctttc acagggtgtgt 120
 agatgaatga aaaaatggat tgataaatgt ataaaaaaa aaaaaaaa aaaaaaaan 180
 gaaaaaaaa aaaaaaaaa aaaaaaaaa ggcttgtacc tn 222

<210> 393
 <211> 486
 <212> DNA
 <213> Homo sapiens

<400> 393
 agggcgaaatt ggagctcccc gcggtggcgg cccgaggtac ttgagggaag tagcatctgg 60
 gtcttggtta tccagctcag cagagctctc ttccccattc tcaaggtoct ctggctcgct 120
 ctctcagag ggcaggcaga aggactggta attgtggat tcccaccagg ccatcttttt 180
 ottatgttca gctctcttct tttgctctct cttctctct atgagtctcc ttctcttggc 240
 agctgcttct tgtcttttct tctgtctgtc ctccagctct tctggactca gaaccgcgtt 300

```

ccttttggtgta gatccctcca caaggcctgg gatgagaaca ctgcctttat ttcggagtga 360
tcggccctct tgactaagct ttctccaaaa gggttttctg aaggtttacc agttgttcaa 420
atgattttct gtcttcctta ctgggctctt tagaaaaatc tttaccttca aataagtacc 480
tgcccg                                         486

```

```

<210> 394
<211> 477
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(477)
<223> n = A,T,C or G

```

```

<400> 394
aggctactcgt ttccccaagc agattacact tccaacagca ctogaatcaa tgcaagaatc 60
ccgcagggta aagtaacca cagtttgtga ttctatgcag tcgatgagca acatcttagc 120
aaacctgaaa aggggaagtg tttgcttccc caggggtaaa ttatgcttaa gagcggtaaa 180
cataatctat tatttcagc taaaacagaa tggaagagac caccagcaa gttctatagn 240
cttggtgtct tgcctgtttt gagctagacc ccactcggcg ctactacca ggccagagc 300
agttcacctt gaaactcttg tgttgtcaag gccctgatg gccttactg nattcctntg 360
nccgctncat gtgtacctgc ccnggcnggc cgccaccgcn ggggtggaact tccaattcgc 420
cctatagtga ggtcgganta ccccccttaa ttggccgtgg tttacaacgt cngnact 477

```

```

<210> 395
<211> 302
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(302)
<223> n = A,T,C or G

```

```

<400> 395
aggnacaaaa ggaggcacta aaatcatnga nnaaaatccc atgttntatn gcttacatta 60
atatttttct aggtaaggta aggtaagtta ctactaccaa gttatgaaac accatttgat 120
gattgaattt cattttctct ggcatgaaga aacaatcact ctttgtaaca cattgatact 180
acaaactaca ttatgcacag ggtagccaaa gaaatctatc acaattcaaa tgccaacagt 240
cttggtcccag tagcatacag ttggtatcct ctattttccc atttggtatt cctctatatt 300
tc                                         302

```

```

<210> 396
<211> 524
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(524)
<223> n = A,T,C or G

```

```

<400> 396
gcnatnggag ctccccgcgg tggcggccgc ccggccagggt acatgccggg gagccggcct 60
cggtctctnc accgccccca acaagatctt ttacatngac aggaacgctt ccaagtcagt 120
caagctggaa gattaaactc tagagttttg tcccccaaaa actgccacaa ttgctttgat 180
tattccattt atgctggaga ttacaaattt tttttgtgaa aaaatcagat cttggtgagg 240
acctcgagcn gtaanatata aataactccc ataagcttag cgttcantn atggaacact 300
aggcataaat ggtttattca gttgtgcaaa tgaaagccat ctgacagttg gtcacattg 360
aacacctgtg gagattaagg acgaggacaa ctatattgat gggcttgat gaactggggc 420

```

agggcagntc atatttcggg agccaggaga acgagtgagt gctaaaacct cctgttttct 480
gtgttaaaca ttccgtccct gtttgagaca tcagtatgta cctt 524

<210> 397
<211> 253
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(253)
<223> n = A,T,C or G

<400> 397
ctatagggcg aattggagct ccccgcggtg gcttccgccg ggcaggtaca agcttttttt 60
tttttttttt tttttttnt ttttngntnt tttttttttt ttnaaaagnc aaaattgggt 120
ttattgncag ccacatatatt agtataaaaa gangggcanc aaatggctca gngttgnttt 180
tnaaaaaaat ccaggttggtg caggttggtt tatttacatt tggganaana gntnttccca 240
catnaggcac ctn 253

<210> 398
<211> 204
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(204)
<223> n = A,T,C or G

<400> 398
acaagctntn tttttttttt tttttttttt tttttttttt tttttttttt ttttttgggg 60
tttttaaaaa ctttgtttta tgggaacttg gaggtttaca aaagtagaag gactagtggg 120
ggggacccaa ggtttccatt atgccccctt ccaattatct ttttaactagg ttggattcat 180
ttacggtgat ccacagccct gaat 204

<210> 399
<211> 506
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(506)
<223> n = A,T,C or G

<400> 399
acagtcacgg ggcagagctt gcatagggat ccaggtgtta ctagtottac tctggagctg 60
gtccaactca gtttcatggc acagaactag attaggtctc cactgocgag tctgtttttac 120
tgcttaggga aagccagctt ttctaccac acacgttttag tttgaagagt atctatTTTT 180
ggagggttct ttgggaggtt gggcaggctt ctttgatcc cagatacatt tagagctttt 240
tgcattaagt gtgaggaaaa taacttctct ttgatgatgt tgatacacca tgtgggcacc 300
ctggggcaca gcggttttagc tggggagatt ccatgagaat gaacccaaac tactcttctt 360
tgctagggtc ctttaccac acagaggtga gcctttcagg ttcttcattt tgcttagttt 420
cttcccttgt cottggcatt taagaggcat ncatgtgtta gccagccaaa gcccctgaa 480
ggagctggct gctttaaaag atttac 506

<210> 400
<211> 382
<212> DNA
<213> Homo sapiens

<400> 400

```

acctgctgtg tgcttataat cctgttttaa agcaagagaa aggagccata aaaagattaa 60
aataaatgaa gtctgcagaa ggcaagcca tttagacatcc tccaagtaa atcctttaaa 120
gcagccagct ccttcagggg gctttggctg gctaacacat ggatgcctct taaatgccaa 180
ggacaagggg agaaactaag caaaatgaag aacctgaaag gctcacctct gtgtgggtaa 240
aggaccctag caaagaagag tagtttgggt tcattctcat ggaatctccc cagctaaacc 300
gctgtgcccc aggggtgccc catgtgtgta tcaacatcat caaagagaag ttattttgct 360
cacacttaat gcaaaaagct ct 382

```

<210> 401

<211> 575

<212> DNA

<213> Homo sapiens

<400> 401

```

gaaatggatt cgaaatatca gtgtgtgaag ctgaatgatg gtcacttcat gcctgtcctg 60
ggatttggca cctatgcgcc tgcagagggt cctaaaagta aagctttaga ggccaccaa 120
ttggcaattg aagctggctt cgcacatatt gattctgctc atttatacaa taatgaggag 180
caggttggac tggccatccg aagcaagatt gcagatggca gtgtgaagag agaagacata 240
ttctacactt caaagctttg gtgcaattcc catcgaccag agttgggtccg accagccttg 300
gaaaggtcac tgaaaaatct tcaattggat tatgttgacc tctaccttat tcattttcca 360
gtgtctgtaa aggtaggcag cttgtgtgat caaattaatt tcacttttgt tctcagcata 420
aatattgttt ttatggatat ttgaactaag cattttctta ggaggacata gggattataa 480
catagaagaa gaatcctaaa tctaactcct aattccttct tatgggatac attttgaatc 540
catacttccg tgattgcatg tctataagaa aagaa 575

```

<210> 402

<211> 171

<212> DNA

<213> Homo sapiens

<400> 402

```

gtaacaactt ggggaaacaa tcccggatgg cacttacata ggcggaactgg tccgagaagg 60
tgctgcacaa cgggttcctt tctagccata gctcttcgag cttcagccct ttcaccttgc 120
ccaactccca cgctgactcc agcttatttt tggagagatt caggggtcttg a 171

```

<210> 403

<211> 1042

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1042)

<223> n = A,T,C or G

<400> 403

```

acttcttcgt catactcact cgttcgtcag tattagtga catgtctcaa tgcgttcgt 60
ctttttatta gttattctca ttcaagtcac accatacgtt gcttcacctc tacttctcta 120
catattacat taacgttatt taatcatatt gaggtttatg tgcaactatat gggcgaaactg 180
gagctacacc gctgtggcgg cctgcccggg caggtacaag cgactatgct agatgcctgt 240
ttaggtagga ctgtgaccgc aggtcatag ctcctttatc tctcctacta ctgagtcga 300
ggaggatgat tatcttga gttagacaaat ccatcatct ctatcttcta cacacttcta 360
aatagaatgt tcggctcgcg tataccattg actatttngg tggaacaaaa ccacctatta 420
agtgatcatca actccttcgt ctactagtg cgttggcgac acaacattac cgtgctcatc 480
gtggatggaa ttatgcatg attaaaaaca cttgactctg taacattctg agtcgggcat 540
actgtatcag gaattccccc ggctaaaatt gtagcaattg attgttcttg gttcctttga 600
aactttgtta cagatgggtc tgttggctc aagctcgaaa cattcctctt ggccccaga 660
actttaatcc tctatgagtg ggccaatttt caactattgg tctatataaa taatgccaac 720
ctattcttaa aatccattta gagggttgggt tggcggtatc ccatatatct aattatatca 780

```

```

aagaatgcct tgggttggtt gaaacaatga caatttcatt ggactcttgg ggcccttgg 840
atgttccact tatcatagga tgggtataaaa tgaaatgaat ccattgggtg cgccccacga 900
tacttggtgg tggcacattc cttagccttta tcaactcgtg gtacaatttg tgttatggg 960
ttattttaaa accacgcttt cctattagaa gagatacccc ctattatatg cgctaagatc 1020
gaaacatatt cctcccctcc cg                                     1042

```

<210> 404

<211> 550

<212> DNA

<213> Homo sapiens

<400> 404

```

actccctttt gatattatac tgatgaatat ttgtagggtt ttcactataa ggaacagcta 60
aggaataatt ttaataaaaag tgaaccagaa caaatcactc atttaaaaag taattcagaa 120
gaacagtgtg gcatgatcag acttctaatt gaatagcgtg acaacagtgt ttgtaattat 180
agatttgctt ggacaaaaata ttccaggaac tcatagcgag ctcaaagcaa ttaagtggga 240
acatttttaa tttaaaaaaa atttccaaat atttggtggg ccgacagtaa tgatcaaaaat 300
atgaatgact ttggaaaatt tacatgaagc tcaagtgtta ggattgactt atgaaaataa 360
attttatttc tatccaaatt tgaatgtcca aaccattttt tagttacttc tttctaatac 420
tagttattca gacaaaattt ggaaacttat tttatgacca catctaatat tctggctgct 480
ttggatacaa tactcttaat ttatgataat tagttaaaat atattaaaaa tattattagt 540
aaaataaaaat                                     550

```

<210> 405

<211> 217

<212> DNA

<213> Homo sapiens

<400> 405

```

gctccaccgc ggtggcgggc cggggtcccg ccccgaaaag gggctacagc tctgagatga 60
agacggagga cgagctgcgg gtgcggcacc tggaggagga gaaccgagga attgtggtgc 120
ttggaataaa cagagcttat ggcaaaaatt cactcagtaa aaatcttata aaaatgctat 180
caaaagctgt ggatgctttg aaatctgata agaaagt                                     217

```

<210> 406

<211> 567

<212> DNA

<213> Homo sapiens

<400> 406

```

acaggagatc tcatttgga caactaaggg taaagggtg gtcacgagc agtgtaagaa 60
ctccagagct gtaaccattt ttattagagg aggaaataag atgatcattg aggaggcgaa 120
acgatccctt cacgatgctt tgtgtgtcat ccggaacctc atccgcgata atcttgtgg 180
gtatggagga ggggctgctg agatatcctg tgccctggca gttagccaag aggcggataa 240
gtgccccacc ttagaacagt atgccatgag agcgtttgcc gacgcactgg aggtcatccc 300
catggccctg tctgaaaaca gtggcatgaa tcccatccag actatgaacc aagtccgagc 360
cagacagggtg aaggagatga accctgctct tggcatcgac tgtttgaca aggggacaaa 420
tgatatgaag caacagcatg tcatagaaac cttgattggc aaaaagcaac agatatctct 480
tgcaacacaa atgggttagaa tgattttgaa gatggatgac attcgttaagc ctggagaatc 540
tgaagaatga agacattgag aaaacta                                     567

```

<210> 407

<211> 442

<212> DNA

<213> Homo sapiens

<400> 407

```

acagaatatt ccaacatgtc tcatatgcaa acaaagcatg tctgtgtcca aagaatataa 60
cctaagacgc cactatcaaa ccaatcacag caagcattat gaccagtata cggaagaat 120
gcgtgacgag aagcttcacg agctgaaaaa agggctcagg aagtatctct taggctcgtc 180
agacaccgag tgtcccagac aaaaacaagt gtttgcaaac ccaagtccaa cccagaaatc 240

```



```

ccccgtgcag cctgtagagg acctagctgg gaacttatgg gagaagttac gtgaaaaaat 300
caggctctttt gtggcataatt ctatcgcaat cgatgagatc acggatataa ataataccac 360
ccagttggcc atattcatcc gtggtgtcga tgagaatttc gatgtgtccg aagaacttct 420
ggacacgggtg cccatgacgg gt                                     442

```

```

<210> 408
<211> 567
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(567)
<223> n = A,T,C or G

```

```

<400> 408
actttgtgag accagatctc catttttttc caatgggaaa ttattgcaag ttctacatc 60
ttgatattgc tttcataatt tataactaaca taaaataata tttttcactg ttttgcaatg 120
tctttttaat ttctgtattg cagctagagg aagtccaaag aaaacttgga tttgctcttt 180
ctgacatctc ggtggtttagc aattattcct ctgagtggga gctggaccct gtaaaggatg 240
ttctaattct ttctgctctg agacgaatgc tatgggctgc agatgacttc tttagaggatt 300
tgccttttga gcaaataagg agatgggttg gtggtgtgga agcttggaag cggtcaggta 360
gtttgctact ttctgcttgg atctattaaa tacctggcag ctctctgtct ttntgtgggt 420
tgttgccctg tgattagttc tgctttttaa cccactccct ggatgcattt ttcccttctt 480
gcatttccct tcttttctgg aagtcatact agagaatctg cactatgttt ttcccttttt 540
gtcttgagat gaaagtttta aaataat                                     567

```

```

<210> 409
<211> 450
<212> DNA
<213> Homo sapiens

```

```

<400> 409
cctacctggg agagacgtgg tctttttata aaacttgtga atctttgcct tttgaagaat 60
ttaacatgga ccttttcgag aggctcctct gtgttcataa ttgccaataa aattacaaaa 120
gcctgtgatt tttaacatcc ctgttatgct gatttctctt aaagtgggtc ctatttgcac 180
aacgagagag tggggaactg aatgcttatg cccaatgaga gttctggagg gttcaaagga 240
tgaaagaagg acctttgtcc ctgcggtctc tgcagggaca cccctcctca caccatctgc 300
ctctaactct gacctgggga cctatccctg tgagccttgt ttgcctcagc tctggaagct 360
gacttctgaa gatgactgcc tcaccttgca ctgtctggaa aacttgaatt attttacgcc 420
gtgaaagaaa aagaaaaaaa aaaaaaaaaa                                     450

```

```

<210> 410
<211> 250
<212> DNA
<213> Homo sapiens

```

```

<400> 410
gcgcttccgg ccattcatac tgcagtcggt cagtgttcgg ttgaaggatt ctgtgtgctg 60
tcggacccag aggggtgacgg cgccgctagg atgaagctcg tgaagatttt tgaatgaaat 120
tgagtcatga aactgtaacc attgaattga agaacggaac acaggtccat ggaacaatca 180
caggtgtgga tgtcagcatg aatacacatc ttaaagctgt gaaaatgacc ctgaagaaca 240
gagaacctgt                                     250

```

```

<210> 411
<211> 337
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> (1)...(337)

<223> n = A,T,C or G

<400> 411

```

actgctttca tccgatttag atgcacttcc tattgatgat gaagaaggcc caccaccagg 60
cccatTTTgc acactggcaa ctgcattcct cggagggggg tcnnnnnnnn nnnnnnnnnn 120
nnnnnacaaag cttnnnnntnn tttttttttt tttttttttt ttttttttag gattctaaca 180
ctttattaag aggtcacaag ccacaggact ttaaagtga tgaaatttat tggcaatgaa 240
gccgcatgta taccaggctt ccctagtccc caccacctg ccccatcat tattacgtgg 300
tggggagggg tttgagacc attttttaaa atggggg 337

```

<210> 412

<211> 216

<212> DNA

<213> Homo sapiens

<400> 412

```

gtaacaactt ggggaaacaa tcccggatgg cacttacata ggaggactgg tccgagaagg 60
tgctgcacaa cgggttccct tctagccata gctcttcgag cttcagccct ttcacctgac 120
ccaactccca cgccgactcc agcttatttt tggagagatt cagggtcttg actttgggag 180
ccttctctgt aatgtcagaa aggccatcca gctggg 216

```

<210> 413

<211> 132

<212> DNA

<213> Homo sapiens

<400> 413

```

actgataact tcttgcttca gttcatctac aatgatcttt ccctctaaat ccagatctt 60
gatgctgggg cctgtggcag cacacagcca gtagcgggta gggctgaagc acagggcggt 120
gatgatgtcc cc 132

```

<210> 414

<211> 481

<212> DNA

<213> Homo sapiens

<400> 414

```

gtggaactga ggatgcagca ttcaagggtc tatcttggaa gcagagactg tgccctcacc 60
agatgctgaa cctgctgagc accctgatct tccacttcac cttcatcaga actactggg 120
ctgtggctga gatgtcacat ggcagatagg atcacaaatt tctgttgat ctggatggag 180
atcagcagga ggatctatgg gtgagaagaa gcacagttac agatggattc tagagcctgc 240
ttgctgacac aggcttgcaa ctgaggactt tataagctta gtttttaatc tgctatcagc 300
tagcataata ccataaatgc ataaaaaact aagtattcag tcttacgaga aatgctatct 360
tgacctgacc ctttctccaa ataaattgac aaaatatctc atcgtctagg atgccagaca 420
gaaataccag ttgcaatgtt ttgttgcata aagtttatcc taatttaaatt tagtggcata 480
t 481

```

<210> 415

<211> 216

<212> DNA

<213> Homo sapiens

<400> 415

```

gtaacaactt ggggaaacaa tcccggatgg cacttacata ggaggactgg tccgagaagg 60
tgctgcacaa cgggttccct tctagccata gctcttcgag cttcagccct ttcacctgac 120
ccaactccca cgccgactcc agcttatttt tggagagatt cagggtcttg actttgggag 180
ccttctctgt aatgtcagaa aggccatcca gctggg 216

```

<210> 416

<211> 216

<212> DNA

<213> Homo sapiens

<400> 416

```

gtaacaactt ggggaaacaa tcccggatgg cacttacata ggcggactgg tccgagaagg 60
tgctgcacaa cgggttcctt tctagccata gctcttcgag cticagccct ttcaccttgc 120
ccaactccca cgccgactcc agcttatttt tggagagatt cagggctctt actttgggag 180
ccttctctgt aatgtcagaa aggccatcca gctgggt 216

```

<210> 417

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(415)

<223> n = A,T,C or G

<400> 417

```

accagctccc aactcaggta aaaatccact gagaaaataa ataactgctg aaggcagggg 60
ctcatgcctg tagtcacagc actttggggg tactacgctt tggtcgaggt gggaggactg 120
cttgagccca ggagtttgag accagcctgn gaaacacagg gagactcttg tttcaacgac 180
aaacaaaaat ttaaattagc catgtgtggt ggtgtgcacc tacagtccca gctactcggg 240
aggctaaagc aggaggatcg tttgagcctg ggagggtcaag gctgcagtgg gccaaagatca 300
tgctgctgca ctctagcctg cacgacagaa caagaccttg actcaaaaat aaataaacia 360
atagataaat aaataactta agtgatgaat taaggactta agtaatatgg tcagt 415

```

<210> 418

<211> 159

<212> DNA

<213> Homo sapiens

<400> 418

```

acaagctggt tttttttttt tttttttttt ttttccgggg aaaagatata tatatatata 60
ttcagaatta ggcagctgga ctccagtttag atgatcccaa ttttggtggc aacatccaaa 120
gcatcgtaat caggagccag tcgaacatat gcctttttt 159

```

<210> 419

<211> 159

<212> DNA

<213> Homo sapiens

<400> 419

```

acaagctggt tttttttttt tttttttttt ttttccgggg aaaagatata tatatatata 60
ttcagaatta ggcagctgga ctccagtttag atgatcccaa ttttggtggc aacatccaaa 120
gcatcgtaat caggagccag tcgaacatat gcctttttt 159

```

<210> 420

<211> 422

<212> DNA

<213> Homo sapiens

<400> 420

```

gggtccgatt tatcatcatg tactctctga catatcagga aagggtgttg ttgacatcag 60
ctccaggcct agcatagtc tttatggggg actgggcagc gtgcagacat caacatttgg 120
aaagcatttt ctctctgtag caacagcttt gcctgtcagc atccaagggt tatctttcca 180
gttcagcagt gcaactctat ggagtagaat tgaaaggaga cttttcgcca attgcaggaa 240
atgggtcataa aaaaatacct gctcactgac agaataaagg taccttttaa cttagtcaaa 300
tctcttttgc attgttttcc aatctgttct tggttgccat tgtatagaaa cagattgaat 360
actcttaaat atttttaaac attaatagag atgaattggg ggaattatat cctattcaca 420

```

ta

422

<210> 421
 <211> 566
 <212> DNA
 <213> Homo sapiens

<400> 421
 actttttgcaa aaagtcgact gtgactgtgt agcattatgt tctgtagaat ttttttcaag 60
 tagcataaatt attcatttgg gtgaaaacag ccaaagggtc cgatatacctc acaaatcatt 120
 tatgccaaac atctgagggc aaaatttagc cgggtgttatt tactagattc ttccctttga 180
 actcacagac tcaagagaca gaccaagagt tcttatatac tcaccacagc ggaccaatcc 240
 aagtggcatt tttaggaaag gttgcagcat ttaatgccat gtggtacgtc tgttcgtcaa 300
 gtgggtggca agggaaatc caagctggca ttttgatat gatgggcctt ttactttcct 360
 gagtgacatg ccacatgtca agaaatactg cccccaccc ccccaactccc atcacattta 420
 cgtgaacaat tttcatttag ttatttcccg ttccatatgg tgttaaaaca gtcgtattaa 480
 ataaagatta tttctagttt tcagtggtaa tttaaatgag aggatatgta ataattgctt 540
 attagatact tatccaaatg aaatat 566

<210> 422
 <211> 357
 <212> DNA
 <213> Homo sapiens

<400> 422
 actactgagt cttgatgtct gtgcttgccg tctctctctc tctctctctc tctctctctc 60
 ctgggggtgtg ttgtgttgtg acatcttacc cactcagtta ctccaagggt agcagaagaa 120
 aaaaaaaaaa gcaggaggca gaggatgcct tgaaagacaa taaggagaag cctggtgtgg 180
 tgggtgcaaac ctttaatccc aacatcgggg aggcaaaggc atgtagatat cagatcagag 240
 ttccaggaca tccagagcca cctaggggggt tcctgtgtca aaaaaaggaa ggaggaagga 300
 aggaaagaag gaaggaagga aagaaggaag gaaggaagga aaaggaagga aggaac 357

<210> 423
 <211> 452
 <212> DNA
 <213> Homo sapiens

<400> 423
 acctgagaag gcagctcacg aaaccaggc ctgtgacccg ggaccggcg gaccctacag 60
 gaaacttggg tgggtggagac ccaaagggtt ggaggcagct ggcaacaagag gctgaggcct 120
 gctgaattac ccatgcttta agaattggga tgggtcccca gtgagctcct ggattctgct 180
 ggtgagacct cctgcttcc cctgccatt catccctgcc cctctccatg aagcttgaga 240
 catatagctg gagaccattc tttccaaaga acttacctct tgccaaaggc catttatatt 300
 catatagtga caggctgtgc tccatatttt acagtcattt tggtcacaat cgagggtttc 360
 ttgaattttc acatcccttg gccaggattc aattccctaa gaggtataat aaattaatct 420
 tttacagca aaaaaaaaaa aaaaaaaaaa aa 452

<210> 424
 <211> 408
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(408)
 <223> n = A,T,C or G

<400> 424
 ctgttttcta ggttttcttt ttctctgatt tcaattagaa tcagaaaact tggcagtatt 60
 gggtttgaat tgccacttgg caataatagt cagctgggtt gcccccttta aaatagataa 120
 gcattctcta gtttgccaca ggtgacacta ccccatgtgc ctcttcagct cactcattca 180

```

catttcctga tgggcatctg cagggtgtatc tttgaccgct gtctggatgt tggaaatgagt 240
ggttcgctga gcaggcagcc tgactcctgt gtatctccca tgattgtcca agcatcactt 300
attgctcctt gaccctgtct ttntactgac gtagttgagt gttgtgcagc cttttatattt 360
agaggcaggg tctcgctctg tcacccaggc tggagtacct gcccgggc 408

```

<210> 425

<211> 472

<212> DNA

<213> Homo sapiens

<400> 425

```

acgtgtgagt gtgtgtttgt atacgtctgg caattaaagc tttgtcttct ggaacttaat 60
gaattctttt ctctttttcc tccagaagta tttgttacaa gatttgtaaa taagagctct 120
acttagtttg tttaccatga acatgttgca gcaaaccctta tgcataat tcctacaagg 180
ttaaagaaaag gcttttagac ttgccagggt aagcaacagc caagttctca gtaattgttt 240
gccttgattt atctttttaa cttcattttg ccaactttta aactcccagg cttccttgat 300
tttagacctt aatcttttat gttctgagca agaagggtaa aagacaggaa cctgcttta 360
ctgtattaac tagtccatgg gctgagaccg gggcatctct ttttttcata cctgcaatgg 420
tggtagatac atgatcagac cccagagggt tgggcattct tgcaaatacc tt 472

```

<210> 426

<211> 450

<212> DNA

<213> Homo sapiens

<400> 426

```

cccacgcctc cggctcctacc ctttgtgttt catcttctcc agccctgtgg gctgcaagcc 60
ggaacaacag atgatgtatg cagggagtaa aaacaggctg gtgcagacag cagagctcac 120
aaaggttcag actgggatgg ggctccagag tgtagggag aggtgggtg ggtcctgggt 180
ctcagtgttt gagtagatca taatgccaag gcctccccta cctcaaacc cagctgggccc 240
cgcttagccc accaggcatg aggccaaagg ctccactgac caggaggccg aggtctctaa 300
ctcttatctt ccacagggtc caagagttca tcaggacccc caagagttag tgagggggca 360
aggctctggc acaaaacctc ctctcccag gcactcattt atattgcttt gaaagagctt 420
tccaaagtat ttaaaaataa aaacaagttt 450

```

<210> 427

<211> 380

<212> DNA

<213> Homo sapiens

<400> 427

```

ttttttttt tatcccttga gtttattagg caaccttggt ctacactctc aggagaggag 60
tgaccagaa ataaagcttg gtgccctgga gtccacctgg agccaggcgc ggggcgctgc 120
acttaggttg gcagaagccc gtttagcgcg agctccagca gcggggacag cgtgtagcgc 180
aggcggcgca gcgtcgctc cgagggtagg ctccagagcc acgcggagac ggcgcgggg 240
tccaacagca ccgtccagag cagcgacagc cccaggaaga ggagcggcag cgtcagcagc 300
acctgcagcg cgccagcac gcaccgcctg atggccagcg cgcgagggcc gccgaacagc 360
cggtctctc ggtccgacct 380

```

<210> 428

<211> 499

<212> DNA

<213> Homo sapiens

<400> 428

```

ggcggccgag gtacattgaa agccatgttc cctttagtaa agaaaaatgc tgttgccctt 60
tgggttgatt ctattatctg atgttttatt aatctctgtg aaataattgt gtaaattaat 120
atagagacta gttgagaaat ggtggataac atgaagaaga taccattttt tgcatagatt 180
agatgtgatc aacctcacac tatcatatga aagttggctg cattggagag acaggaatta 240
atattaaaaa tgttttcagt tcagattgat atcttacatt tccaaatatt attttctttt 300
gaatatgtgg tataagtaat ctgctttaag tcctatttta agttgggtgc agtggctcgc 360

```

```

acctgtaatc ccaccatttt gggagggtga gaccaggagt ttgagaccag cctgggcaac 420
agagtgcagc cccatcttta tagaaaataa aaaattagcc aggcattgat gcacgtgcct 480
gtagttctaa ctacttgga                                     499

```

```

<210> 429
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 429
actacaaagc tcagtcacca gatgaggggg ccctgggtcac cgcagccagg aacttttggtt 60
ttgttttccg ctctcgacc cccaaaacaa tcaccgtcca tgagatgggc acagccatca 120
cctaccagct gctggccatc ctggacttca acaacatccg caagcggatg tcggtcatag 180
tgcggaatcc agaggggaag atccgactct actgcaaagg ggctgacact atcctactgg 240
acagactgca ccactccact caagagctgc tcaacaccac catggaccac cttaatgagt 300

```

```

<210> 430
<211> 392
<212> DNA
<213> Homo sapiens

```

```

<400> 430
gtggaactga ggatgcagca ttcaaggttc tatcttgaa gcagagactg tgccctcacc 60
agatgctgaa cctgctgagc accctgatct tcacttcac ctcatcaga actactgggg 120
ctgtggctga gatgtcacat ggcagatagg atcacaaatt tctgttgat ctggatggag 180
atcagcagga ggatctatgg gtgagaagaa gcacagttac agatggattc tagagcctgc 240
ttgctgacac aggtttgcaa ctgctggactt tataagctta gtttttaatc tgctatcagc 300
tagcataata ccataaatgc ataaaaaact aagtattcag tcttacgaga aatgctatct 360
tgacctgacc ctttctccaa ataatggac aa                                     392

```

```

<210> 431
<211> 429
<212> DNA
<213> Homo sapiens

```

```

<400> 431
actgactcact acatcatggc cggggtcctt tttgtgctga ttgtgctgag ccagctcacc 60
attctcatta tttttagata tcgaggatac ccagagctta aagaaccttc agggtttata 120
aatctgacct cattttctct tcatgtcttg agcaaaataa acatcttcta ctattctgtg 180
ttgtttgtga ccctgtatc agtgctgggt ccatggtttt ttggtgaaat cattgatggc 240
aaatttggtt gctgcttttc ctttgggata tttgttaatg gacatttcct acaaggcagc 300
ataacattta taattggaat tctccagctg gcgtttttta acatcccctt gatggcttac 360
atgtgttgga gcttgctgca gcggtgcttt ggtcacaact tcaggtctca tctccatcaa 420
agaaaatac                                     429

```

```

<210> 432
<211> 482
<212> DNA
<213> Homo sapiens

```

```

<400> 432
cacgcgtccg gcaacggcaa gggccgcagc cagcaccggg cggagagggc taccatgggg 60
aaaatcgcgc tgcaactcaa agccgcgctg gagaacatca ccaacctccg gcccggggc 120
gaggacttcc ggtggtacct gaagatgaaa tgtggcaact gtggtgagat ttcggacaag 180
tggcagtaca tccggctgat ggacagtgtg gcactgaagg gggccggtgg cagtgttcc 240
atggtccaga agtgcaagct gtgtgcaaga gaaaattcca tcgagatttt aagcagcacc 300
atcaagcctt acaatgctga agacaatgag aacttcaaga caatagtgga gtttgagtgc 360
cggggccttg aaccagttga tttccagccg caggtgggt ttgctgctga aagtgtggag 420
tcaggacagc cctttagtga cattaatctg caggagaagg actggactga ctatgatgaa 480
aa                                     482

```

<210> 433
 <211> 541
 <212> DNA
 <213> Homo sapiens

<400> 433
 acccagagtt gcgaggagtt ttttaactga ttttagccagg tggcaatcat gaggatgaatgg 60
 atgaagaaag gctccttaga atggcaagat tacatttaca aagagggtccg agtgacagcc 120
 agtgagaaga atgagtataa aggatgggtt ttaactacag acccagtctc tgccaatatt 180
 gtccttgtga acttccttga agatggcagc atgtctgtga ccggaattat gggacatgct 240
 gtgcagactg ttgaaactat gaatgaagg gaccatagag tgagggagaa gctgatgcat 300
 ttgttcacgt ctggagactg caaagcatac agcccagagg atctggaaga gagaaagaac 360
 agcctaaaga aatggcttga gaagaaccac atccccatca ctgaacaggg agacgctcca 420
 aggactctct gtgtggctgg ggtcctgact atagaccac catatggtcc agaaaattgc 480
 agcagctcta atgagattat tctgtcgcgt gttcaggatc ttatttgagg acatcttaca 540
 g 541

<210> 434
 <211> 357
 <212> DNA
 <213> Homo sapiens

<400> 434
 accttcagag aaaaccaaac agcctaaaga atgttttttg atacaacca aggaaagaaa 60
 agagaatacc accaagacca ggaaaagaag aaagaagaaa attactgatg ttcttgcaaa 120
 atcagaacca aaaccagggt tacctgaaga cctacagaag ctgatgaagg actattatag 180
 cagcagacgc ttggtgattg aattagaaga actgaacctg ccagactcct gtttcctcaa 240
 ggccaatgat ttgactcaca gtctttcctc atacctaaaa gaaatttgct ctaagtgggt 300
 aaaacttagg aagaaccaca gtgagaagaa atcggtcctg atgctgatca tctgcag . 357

<210> 435
 <211> 482
 <212> DNA
 <213> Homo sapiens

<400> 435
 actcacagct gctatcaggt catcaagagt gtcggtaagc gtctgagctg gaggttgcaac 60
 cattagtcca tctggttctt gaactaacag cccctgatca tgtccagtaa tagcaatctg 120
 aggctgtcct acaatctgct gattacctga tactttctga agttcaagag aatttgtccc 180
 attagaacct aagtcactgg aaaagttaca ctgtggagat gataaaggct ggactgggac 240
 aaaatcaatc tgttctgccc atggtggaga ctggtgctca tcatcaacat cattatcttt 300
 aaataagatt gtgtcaacct gaggttaactc tgaaaagtga tcctctggga gactaccatc 360
 tccttcccct tctgggaaga ctccctctatg agagcactgt tgggtgtagag acactgtgtc 420
 tttctgacct ttggtttcca agtattcttt ggtgaattgc tgctgtgttt tcatctgcaa 480
 ct 482

<210> 436
 <211> 265
 <212> DNA
 <213> Homo sapiens

<400> 436
 gccgggggct gggatcacca tgccccttgc ccgtctcgca ccttgetgct gtctgtaacc 60
 cccagcacc tcccgcaggc ctggacgtct tatccctctc cttagcccca ggagcgtgtt 120
 tcaggaaactc tcctcacctc tgtgtcttgt gttttgcagt gatcagggcc aaagcgggtca 180
 gtgagaagga agtggactct ggaaacgaca tttatggcaa ccctatcaag aggatccagt 240
 atgagatcaa gcagataaag atgtt 265

<210> 437
 <211> 368

<212> DNA

<213> Homo sapiens

<400> 437

```

actcatccag gtagtaggcc atggtggcgt gttcctgctc gttcagcagg tgccgagcct 60
gctcctccag cagcactcgt gtctggttcc ccaggctgct cagggtcacc tgggagccgg 120
ctgggccctt gtaaaatcct ggcttggtta ttccttctgt tgtgagatcg ccaagaaacc 180
tgtggggaaa gacacacatc tccagttgtg catttgagca gatcaaattg gcgtgggcaa 240
gggacagggg gacttggggc aggaagagca aagcttcaag agaaccatgc atcgtggcct 300
ccactcgctg ccagttcagt ctgggggcta ctcaagggtg aaggaaactc cggacagact 360
ggcagcgt
368

```

<210> 438

<211> 517

<212> DNA

<213> Homo sapiens

<400> 438

```

aatgaagaaa aaagtactgt gacctgagag acaccctcct ctagaattta gtggcgggtc 60
tgggctggca gaggtagggg gctgcttttg gctttgcacc tgcacttttg tgacattgtt 120
cttctgtgtt ccctttatct atgctgggtg cttccatccg ttctcctctt gaggtgagt 180
ggaggggtat atggaaacac ggctatgacc aaaggagat ccagcctgg gcaggctgcg 240
ctgctgacca ccctccctgg ggcccgggct ctgtaggaaa gttggtcctt gactgtggca 300
ttgactctg cactgtttct ctctgcagac ctaggggaaa actgcaagtg gaagtgcctt 360
tctactaagg cctcttactt tgggggggat gtgccctaca gaagacatag aagatgggga 420
aatgccaatg ggcaaagagc tactttgaat acataattct ctttaaagac ttcaacagca 480
aaccaaaaca gcatgtttaa aaaaaagatg cttttttt
517

```

<210> 439

<211> 411

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(411)

<223> n = A,T,C or G

<400> 439

```

agacaataca cattccaact atggagaatg gtcctaagct ggcaagccgc atcttgagca 60
aattaactga tatccagtat ggaagagaag agagcgactg gacaattgtg ctatcctgaa 120
tggaataatag aggatacaat ggaaaataga ggataccaac tgtatgctac tgggacagac 180
tgttgcatctt gaattgtgat agatttcttt ggctacctgt gcataatgta gttttagta 240
tcaatgtgtt acaagagtga ttgtttcttc atgccagaga aatgaattg caatcatcan 300
atggtgtttc ataacttggt agtagtaact taccttacct tacctagaaa aatattaatg 360
taagccatat aacatgggat ttctctcaat gattttagtg cctccttttg t
411

```

<210> 440

<211> 490

<212> DNA

<213> Homo sapiens

<400> 440

```

actttttttt tttttttttt ttttttttta aaaccggggg cccaaattta aaaaaaaaaa 60
gccccaaacc ccccggaagg gggaaccccc cccaaacccc ggggcaaaaa aggggggaaa 120
aaaatgggtt aaaaaaccaa aaaaggccgg cccaaaaaaa aaacccttg gaaaattcct 180
ttgggaaacc acccccccctt taaaaacccc ccccaaagg ggtttttccc ggaaagaatc 240
caaaaagttg ggggggggctt aaaaagggcc ctttacatta aaaaattttt tttttgccc 300
cccttaaaaa agaaaccccc cccttttcca aagatttaac ccgggggggg ggggggggga 360
aacaaaatgg ggaaaacccc ccccccccc cccggggggg tttccgggt tcccaaaaaa 420
cccggggggg gggccccggg ttttttaaaa aatttttttc ccgggaaaaa caaacaggg 480

```


ggaaaaaaaa

490

<210> 441

<211> 488

<212> DNA

<213> Homo sapiens

<400> 441

```

agtgcgcacg cgtccggctg agcccatcg gctggagctg agccgcacct gcgagttgca 60
tctgggatct ccagttcacc ggcccctaag ctcttgagag gttggcctga ccctgaagtt 120
gcctgtcaat caccatttct tccctccact ccttgtgtta cctgcctggt cctgcggagt 180
tggaacaac tcaggagccc acctcgggtg gttttggagg tgccgtgcac actgctgatt 240
gggaggctgg acgctgccag tctgtccgga gtttccttta ccctgagta gccccagac 300
tgaactggca gcgagtggag gccacgatgc atggttctct tgaagctttg ctctttctgc 360
cccaagtac cctgtccctt gccacgccc atttgatctg ctcaaataca caactggaga 420
tgtgtgtctt tcccacaggt ttctggccga tctcacaaca gaaggaatta acaagccagg 480
attttaca

```

<210> 442

<211> 233

<212> DNA

<213> Homo sapiens

<400> 442

```

ctctgcccc tacgccatcc cgacacgtcc cgtccccgaa cctggtcagt gcaatactcc 60
attgcctggg gtccttcacc atggattttt ttggaaacct ctgcgccatg agagccaagt 120
ggaggaagaa gcgaatgccc aggtgaagc gcacaagaag aaagatgagg cagaggtcca 180
agtaaaccgc ttgcttggtg caccgaggag gccaccagag cacaacatg gaa 233

```

<210> 443

<211> 355

<212> DNA

<213> Homo sapiens

<400> 443

```

ctccctgccc cacacggccc tcgccatggt gaagctgagc aaagaggcca agcagagact 60
acagcagctc ttcaagggga gccagtttgc cattcgctgg ggctttatcc ctcttgat 120
ttacctgga ttaagagggt gtgcagatcc cggaatgcct gaaccaactg tttgagcct 180
actttgggga taaaggatta tttggtcttc tggatttga ggcaatcagc ggacagcatg 240
gaagatgtgt gctctggctc ggataagaga tgggacatca ttcagtcact agttggatgg 300
cacaaggctc ttcacagacg catctgtagc agagtggaaac ttgtacctgc ccggg 355

```

<210> 444

<211> 399

<212> DNA

<213> Homo sapiens

<400> 444

```

tatgtacagt cacggggcag agctggcata gggatccagg tgttactagt cttactctgg 60
agctggtcca actcagtttc atggcacaga actagattag gtctccactg cgcagtctgt 120
tttactgctt agggaaagcc agcttttcta cccacacacg tttagtttga agagtatcta 180
tttttgagg gttcttttgg aggttgggca ggcttctttg gatcccagat acatttagag 240
ctttttgcat taagtgtgag gaaaataact tctctttgat gatgttgata caccatgtgg 300
gcaccctggg gcacagcggg ttagctgggg agattccatg agaatgaacc caaactactc 360
ttctttgcta gggctcttta cccacacaga ggggagcct

```

<210> 445

<211> 575

<212> DNA

<213> Homo sapiens

<400> 445

```

gcgtccgcac gaaggtagtg aggcctagtg gaaagccatg gagagcgctc tccccgccgc 60
cggcttcctg tactgggtcg gcgcgggcac cgtggcctac ctagccctgc gtatttcgta 120
ctcgcctctc acggccctcc gggctctggg agtggggaat gaggcggggg tcggcccggg 180
gctcggagaa tgggcagttg tcacaggtag tactgatgga attggaaaat catatgcaga 240
agagttagca aagcatggaa tgaaggttgt ccttatcagc agatcaaagg ataaacttga 300
ccaggtttcc agtgaaataa aagaaaaatt caaagtggag acaagaacca ttgctgttga 360
ctttgcatca gaagatattt atgataaaat taaaacaggc ttggctggtc ttgaaatcgg 420
catcttagtg aacaacgtgg gaatgtcgta tgagtatcct gaatactttt tggatgttcc 480
tgacttggac aatgtgatca agaaaatgat aaatattaat attctttctg tttgtaaagt 540
gacacaattg gtactgcctg gcatggtgga aagat 575

```

<210> 446

<211> 179

<212> DNA

<213> Homo sapiens

<400> 446

```

at ttgtggccct cgaggccaag tttttttata tttaaaaatt caaaaagcct aaaccagtag 60
ttcggcaatc ataattacaa gagctttaaa tatctatctt ttctgaagat tgatgttaat 120
tgggtccttg aagtcttaga aggggtggttc tttcctgggt gattttgtcc cccaaaaga 179

```

<210> 447

<211> 389

<212> DNA

<213> Homo sapiens

<400> 447

```

acacttatcc ctaccttcat gttccagtgg aagaccttag taaaatcaaa gatcagttag 60
ttcatctgta atattttttt tacttgcttt cttactgaca gcaaccagga atttttttat 120
cctgcagagc aagttttcaa aatgtaataa cttcctctgt ttaacagtc ttggaccatt 180
ctgatccagt tcaccagtag gttggacagc atataatttg catcattttg tcccttgtaa 240
atcaagatgt tctgcagatt attcctttaa cggccggact tttggctgtt tcctaataaa 300
acatgtagtg gttattattt agagtttata gccgtattgc tagcaccttg tagtatgtca 360
tcattctgct catgattcca aggatcagc 389

```

<210> 448

<211> 490

<212> DNA

<213> Homo sapiens

<400> 448

```

acttgtttgc aagcaggact ttgaggcaag tgtgggccac tgtggtggca gtggaggtgg 60
ggtgtttggg aggtgcgtg ccagtcaaga agaaaaaggt ttgcattctc acattgccag 120
gatgataagt tcctttcctt ttctttaaag aagttgaagt ttaggaatoc tttggtgcca 180
actggtgttt gaaagtaggg acctcaaagg ttacacctaga gaacaggtgg tttttaaggg 240
ttatcttaga tgtttcacac coggagggt tttaaaacac taaaaattta taaatttata 300
gttaaaggct aaaaagtata atttattgca gagggatggt tcataagggc cagtatgatt 360
ttataaattg caattctccc cttgaattta aacaacacag atacaacact acacacacac 420
accacacaac aaaacctttc tgccttttga tgtttacagg atttaattac aagttttatt 480
ttttaaaaga 490

```

<210> 449

<211> 175

<212> DNA

<213> Homo sapiens

<400> 449

```

actaaccact cccaacccca acccccagtg tagagtgcc taagagtaaa agaactgtaa 60
tgaggacaat ctggtatcca aattcattca agtgtgttac tgagctgttt agcaacaaca 120
tatgtagcaa tcacctcaa aacgcaagct gcacctctgg ggaggaagcc ctggt 175

```

<210> 450
 <211> 524
 <212> DNA
 <213> Homo sapiens

<400> 450
 acccacgtcc tagggaagga gaagatcgcc agcatgctgc cggagcagct ctacttcctg 60
 cagagccccc ggaggaggag cccgaatacc accccgacgc ctcagcccaa gaatcatttg 120
 ctgtttcaaa tagagaactg tgcgatgatg agaaaagagt catacatttt ccagtatgtg 180
 aggggacctc tcaacctgaa ccctcgtgtt cagctgtcag aataacagcc aataaaaaact 240
 acaggagcaa aacctctcag gaagggtgctt taaaaaagat gcatgaggaa gaacaccatc 300
 aacaaatgtc catcttcaaa ctgcaactga tacaaatgaa tgagggtgat gtggccaaaa 360
 tccagcagat agagcgagag tgtgagatgg cagaggagga acacaggata aaaatggaag 420
 ttctcaataa aaagaagatg tattgggaaa gaaaactaca aacttttacc aaggaatggc 480
 ctgtttcctc atttaaccgg ccctttccca attcgcccta agac 524

<210> 451
 <211> 425
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(425)
 <223> n = A,T,C or G

<400> 451
 actttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 aaaaaatttt aaaaaaaaaa aaaaaaaaaa aaaatttccc ccaaaaaaaaaa aaaaaaagg 180
 tttttttttt tttccccccc cgtttttttt taaaaaaaaa aaaaaaagg gggtttttcc 240
 aaaaaaaaaa aaaatcccc cccccaaaaa aaaaaggggg gggtttttaa aaaaaaaaaa 300
 ctttttttaa aaaaaaaaaa gggttttttt tttttttttt ttggaaaaaa aaaaaaaaaa 360
 aaaaaaata tttttttttt tttttttttt ccaataaaaa aaaaaaaaac cccccccctg 420
 gggggg 425

<210> 452
 <211> 262
 <212> DNA
 <213> Homo sapiens

<400> 452
 acgatgggag gcagcagcca tatccatagc ctccaaagcc agagccatat ccgtagcctc 60
 caaagccaga gccatatccg tagcttccaa agccagagcc atatccgtag cctccatagc 120
 cacagccaga acccgtctg cagaagctgc cacatccaca gccatagcca tagcccaggc 180
 caccgaagcc tccacagctg tagcccaggc ctccgtagta gctgccgtag tgactcatgg 240
 tgtaggagtg tgagtgggtt gt 262

<210> 453
 <211> 335
 <212> DNA
 <213> Homo sapiens

<400> 453
 taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggggg 60
 ggcccccttt ctttttttta aaaaaaaaaa cccccccccc cccccccgga ccctaaaaaa 120
 aaaaaaaaaa cccctggggg gggaaacott ttttttgccc cttttttggg ggcccaaaaa 180
 aacccttccc ccccatttt tccaaaaaaa acctttttt ccccccttt tttggggggg 240
 gggccccccc ccccaagggg ttttttttta gggggggccc cccggggccc cccccaaaaa 300
 aatttttttt tccccctccc cccaaaataa ccccg 335

<210> 454
 <211> 235
 <212> DNA
 <213> Homo sapiens

<400> 454
 gggaagggtca ggcgcgtaat ggcgttcttg gcgtcgggac cctacctgac ccatcagcaa 60
 aagggtgttg gcctttataa gcgggcgcta cgccacctcg agtcgtggtg cgtccagaga 120
 gacaaatacc gatactttgc ttgtttgatg agagcccggt ttgaagaaca taagaatgaa 180
 aaggatatgg cgaaggccac ccagctgctg aaggaggccg aggaagaatt ctggt 235

<210> 455
 <211> 364
 <212> DNA
 <213> Homo sapiens

<400> 455
 actagtggat ggggggtcagg gtgtcactcc aaggccctct acagaccag agaagaggaa 60
 agtcaaaaaa gccagatatg agactgctga agtggtgtta agaaatatag gcaaggtaaa 120
 gggaaacaagg atctgggctc cctcctactt gtgtccctca ctggacctca tacaccctac 180
 ctctaagact ggttcttaga aggtgaaca gttaggagca ttccaatagc ttttgaaact 240
 cccaaggctg tttcaagtag tcgaaagcca ttcttggaact gttcagggtgc cttttctatt 300
 tcccacctga gctctttgcc ctttctttga gcctcacagg ttttccgaat ttacagtacc 360
 ttgg 364

<210> 456
 <211> 274
 <212> DNA
 <213> Homo sapiens

<400> 456
 acaagtcttg ctacgagggtg gccctggaat acttgaattc tggtgatgg tgtaaacagc 60
 tctgcaaaaa atccctttca taccacaaag ccaagacgtt ccatgggtatt tgtgcaaaag 120
 agatgaagac ttctcaatat gcttattttg ctttgcataa ttggctcttt ttaagagccc 180
 aagaaagtgt ttctaaaatt gcttgcactg cccaatccca gtaatgctgc tgctgacag 240
 aaacacacac acagccacag ttgccaaatc ccgt 274

<210> 457
 <211> 237
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(237)
 <223> n = A,T,C or G

<400> 457
 ggagaatggc ccagtcctct cccaattcca cacaggggag gtgatagcat tgctttcgtg 60
 taaattatgt aatgcaaaat ttttttaatc ttogccttaa tactttttta ttttgtttta 120
 ttttgaatga tgagccttcg tgccccctt tcccccttt ttgtcccca acttgagatg 180
 tatgaaggct tttggtctcc ctgggagtg gtggaggcag ncnggggctt aacctgt 237

<210> 458
 <211> 136
 <212> DNA
 <213> Homo sapiens

<400> 458
 gggctctgaga cctgtgctgc ttggtgcacc cagtgtgagt catgaaaggc cctctgtggt 60

gggcatcaca ggtctccttg agttttattgc tgtgcaaagt ggaggacttt agttttctttt 120
tcaacatcaa gctgtg 136

<210> 459
<211> 136
<212> DNA
<213> Homo sapiens

<400> 459
gggtctgaga cctgtgctgc ttggtgcacc cagtgtgagt catgaaaggc cctctgtggt 60
gggcatcaca ggtctccttg agttttattgc tgtgcaaagt ggaggacttt agttttctttt 120
tcaacatcaa gctgtg 136

<210> 460
<211> 247
<212> DNA
<213> Homo sapiens

<400> 460
acctgagact tccagtggat gagggctcagc ctctggagct gtgaaaacct gggccgacag 60
cggaggcaga gctgcactaa tgttcccaca cgagtccttc ccacccaaca ccttggtgca 120
gggagacgga aggagcctgg agccaggggt aaggaagaga gggaacctt caccgattgg 180
gcataagcca ctccaggga gcaaggagct tcttctccgc cttgaccccg cccttggcag 240
gccggcc 247

<210> 461
<211> 441
<212> DNA
<213> Homo sapiens

<400> 461
acaagctttt tttttttttt ttttttttgg caggctctca ggaatccttt attctttag 60
taataataat actaacaac agttggggaa ctaggagaa aaccagacca ttaaaactgt 120
ttgtggtaga atatacatgg aaggacgttt tttttctgtg acttgacaa tgtggagt 180
aagcgggtga gagaacatgg aaggcccgcc cttttcaggg aagaggtggt agtgaccaag 240
acaggcaggg aaaaagcaaa cttctatgtg gtgcctttt tatcttggac actgaggcat 300
cogttcatac cttattacc attttccct gcacttccc agaaaacctg gaaatgacac 360
atgtgggttaa ctaaggactt tatttcaaac aaaaattaaa aatattaaat tgagagctct 420
tttccctggg tttggggaag g 441

<210> 462
<211> 391
<212> DNA
<213> Homo sapiens

<400> 462
acagtaatcc tgccatgatag agtagtctgg aatgagaatt actttttggg tgagagagtt 60
ctccatttta atgtttctaa agtttttcat atgaacttgg cattggaaaa gggaggtaaa 120
gaaaaaggac gtttactaaa agcagtgtct actcttcccc tttgtgagt tttattcatg 180
gctaatgaaa aaaagagaag gactcttggg ttttgtgttg ccatgttaag catggagagg 240
gatgcttgac agcatgctaa ttgaagccag agcaagtatg tccttcatca ggtaatcagg 300
aactcttcag ttgaagctga ggaactaact gattagtgg ttgatcataa tataattgg 360
taciaagtgg gaagtgccag ctggccttaag t 391

<210> 463
<211> 439
<212> DNA
<213> Homo sapiens

<400> 463
cccacgcgtc cgctccttag ctggctggtt tagttgtaat accaaattcc taccattaat 60

```

ccctgtctac aaaagttagg tttagatttt agtttgcgga aaccttcctt atatagagac 120
agattaactt gttgatataa atttaataga gctagctctt ggtaatggtg aaaataatga 180
gttttggttg gttttatttg gcagatgttt ttagaaataa aagtacttag acctagtgc 240
gcctctagga aaagtcttgc cttttcatta gagaaaacag gaccaagggtt tcagttttca 300
aacagctgtt gttgaatgtg taaaacccag ttccatctgt tttggttcat tgttacagaa 360
cttagtccag tcatttgggc taaagccaac caaaagctta gttgcctttc ttaacaaaca 420
ctggtactgg tatactttt 439

```

<210> 464

<211> 291

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(291)

<223> n = A,T,C or G

<400> 464

```

actggatttc cagaaagtga aactaaaaga gcgtcaggaa gcagagaaaa tgttcaaggg 60
caaacggggt gcacagcttg caaaggatat tgccaggaga agcaaaactt ttaatccagg 120
tgctggtttg ccaactgaca aaaagaaagg tgggccatct ccaggggatg tagaagcaat 180
caagaatgcc atagcaaagt cttcaactct ggctgaagtg gagaggctga aggggttgct 240
gcagtctggg cagatccctg gcagagaacg cagatcangg cccactgatg a 291

```

<210> 465

<211> 408

<212> DNA

<213> Homo sapiens

<400> 465

```

tagcagccag gaaggagaga ctgggatggt tttttatctg ttgctttctt aaatcaaggg 60
ccgccggggc ggagatggat ggagggaacc gggatttggg aactcgaaaa cgagctgagg 120
gaaggagacc tgtggaaata gactggagtc tgggtagtgt cgtttcctag agaatggtct 180
cgaagtaact tctcggtaaa gtcttcacgg aatttcacga ccacacttgg cccactggga 240
ggcttttttag gacccgagac gtgtgcaggc ttttcacagc aaaatgaagt ttaatccctt 300
tgtgacttcc gaccgaagca agaatcgcaa aaggcatttc aatgcacctt cccacattcg 360
aaggaagatt atgtcttccc ctctttccaa agagctgaga cagaagtc 408

```

<210> 466

<211> 524

<212> DNA

<213> Homo sapiens

<400> 466

```

ggcgcccgcc cgggcagggt tgtcggcgcc gccactgtcc ggccacagcc taacgctctt 60
cgctgtcggt tgtggtctcg cgcaggcgcc ccccggttct ggtgtttggc gtcggaatta 120
aacaaccacc atgtcgagca aaaaggcaaa gaccaagacc accaagaagc gccctcagcg 180
tgcaacatcc aatgtgtttg ccatgtttga ccagtcacag attcaggagt tcaaagaggg 240
ccttcaacat gattgatcag aacagagatg gcttcacga caaggaagat ttgcatgata 300
tgcttgcttc tctaggggaag aatcccactg atgcatacct tgatgcatg atgaatgagg 360
ccccagggcc catcaatttc accatgttcc tgaccatgtt tggatgaaga gttaaatggc 420
acagatcctg aagatgtcat cagaaacgcc tttgcttgct ttgatgaaga agcaacaggc 480
accattcagg aagattacct aagagagctg ctgacaacca tggg 524

```

<210> 467

<211> 193

<212> DNA

<213> Homo sapiens

<400> 467

```

actgatttta aaaactaata acttaaaact gccacacgca aaaaagaaaa ccaaagtgg 60
ccacaaaaaca ttctcctttc cttctgaagg ttttacgatg cattgttatc attaaccaag 120
cttttactac taaacttaaa tggccaattg aaacaaacag ttctgagacc gttcttccac 180
cactgattaa gag 193

```

<210> 468

<211> 185

<212> DNA

<213> Homo sapiens

<400> 468

```

ggctgctcgg gttagatcgt caggtgaggg aggaagggat agccagcgcg aaggaagtgc 60
tggagtcgtg tgttttggct gcgcgtgatc ctgcgtgggt cgggaggtgt ttctgtgaaa 120
agcctaaaga ttagactgta agaaaagaaa atagaagcca tgtttcgaag acctgtatta 180
caggt 185

```

<210> 469

<211> 624

<212> DNA

<213> Homo sapiens

<400> 469

```

acgactcact atagggcgaa ttggagctcc accgcggtgg cggccgctct agaactagt 60
gatcccccg gctgcaggaa ttcgatggtc aggcttatcg ataccgtcga cctcgagggg 120
gggcccggta cccagctttt gttcccttta gtgagggtta attgcgcgct tggcgtaatc 180
atggtcatag ctgtttcctg tgtgaaattg ttatccgctc acaattccac acaacatacg 240
agccgggagc ataaagtgtg aagcctgggg tgcctaata gtagactaac tcacattaat 300
tgcgttgcgc tcaactgccc ctttccagtc gggaaaacctg tcgtgccagc tgcattaatg 360
aatcggccaa cgcgcgggga gaggcgggtt gcgtattggg cgctcttcg cttcctcgt 420
cactgactcg ctgggctcgg tcgttcggct gcgcgagcg gtatcagctt actcaaagg 480
ggtaatacgg ttatccacag aatcagggga taacgcagga aagaacatgt gagcaaaag 540
ccagcaaaag gcccggaacc ctaaaaaggg cgcgttgttg gcgtttttcc ataggctccg 600
ccccctgac gaggcattac aaaa 624

```

<210> 470

<211> 467

<212> DNA

<213> Homo sapiens

<400> 470

```

acatccatcg gcctgtaagg gtctgtatta tggctgtgaa tatatgtttt caggacagcc 60
ccctggatga gagataagag agttcctggc tcaaaaaagg acaagattct ttactgagat 120
tgggaagtat gggctactta gaaacgttgg agcagccacc cctggcattc cacatgtcac 180
catttctagg atcttggcct ctctgtgagg ttatgcacc aatgctggca gccctgggca 240
ggggcctcgg cctccttttt gtttccact tcagacagg acctgcccg gcggccgccc 300
gggcaggtac aagctttttt ttttttttt ttttttttt ttttttttt 360
ttttttttt ttttcagagt ctgatcttat ttatttgta ctcaaaaaat cttatttttg 420
actggattca aacttaaaag taaaacctcg caaaggggaa agtttgc 467

```

<210> 471

<211> 372

<212> DNA

<213> Homo sapiens

<400> 471

```

acaaacttag aagaaaattg gaagatagaa acaagataga aaatgaaaat attgtcaaga 60
gtttcagata gaaaatgaaa aacaagctaa gacaagtatt ggagaagtat agaagataga 120
aaaatataaa gccaaaaatt ggataaaata gcactgaaaa aatgaggaaa ttattggtaa 180
ccaatttatt ttaaaagccc atcaatttaa tttctgggtg tgcagaagt agaaggtaaa 240
gcttgagaag atgaggggtg ttacgtagac cagaaccaat ttagaagaat tcttgagct 300
agaaggggaa ggttgggttaa aaaatcacia tcaaaaagct actaaaaagg acttgggtga 360

```

aatttaaaaa aa

372

<210> 472

<211> 325

<212> DNA

<213> Homo sapiens

<400> 472

```

ccagccccc  ggaggaaggt  gggctctgaat  ctagcaccat  gacggaacta  gagacagcca  60
tgggcatgat  catagacgtc  ttttcccgat  attcgggcag  cgagggcagc  acgcagagccc  120
tgaccaaggg  ggagctcaag  gtgctgatgg  agaaggagct  accaggcttc  ctgcagagtg  180
gaaaagacaa  ggatgccgtg  gataaattgc  tcaaggacct  ggacgccaat  ggagatgccc  240
aggtggactt  cagtgaagtc  atcgtgttcg  tggctgcaat  cacgtctgcc  tgtcacaagt  300
acctcgccg  cgaccacgct  aagcc

```

325

<210> 473

<211> 364

<212> DNA

<213> Homo sapiens

<400> 473

```

ccacgcgtcc  gcttgccagg  ctgccgctgg  acgcgtagag  atcaggccag  cgccgcgctc  60
atttttccag  gtagacctac  tctgtggaac  ggaagtgcc  tagctgcttt  gttttttag  120
cacttgctgg  ctgaattttt  cttttgctaa  tcgctaacca  gaaagtctgg  ttagaggggg  180
ctcaactcaa  tcccttttgt  ccccgagcgc  agacaagagt  taattctgga  aaattcagta  240
cttgaatgta  cctgccttat  tgcataccaa  tttactgggg  ggaaaaaaaa  agttaagaga  300
tgccggctcc  agatctccac  ttcattcaca  ggtgattttg  gaaatcctgt  aagttacact  364
tcct

```

364

<210> 474

<211> 298

<212> DNA

<213> Homo sapiens

<400> 474

```

actcgagaac  gcggccgcta  tcgggaagaa  gaaatgactg  tgggtggagga  agcggatgat  60
gacaaaaaaaa  ggctgctgca  gattattgac  agagatgggg  aagaggaaga  ggaagaggag  120
gagccattgg  atgaaagctc  agtgaagaaa  atgatcctca  catttgaaaa  gagatcatat  180
aaaaaccaag  aattgcggat  taagtgttcca  gacaatccag  agaagttcat  ggaatccgag  240
ctggacctaa  atgacatcat  tcaggagatg  cacgtgggtg  ccaccatgcc  agacctgt  298

```

298

<210> 475

<211> 406

<212> DNA

<213> Homo sapiens

<400> 475

```

acagaagaaa  acaggttctg  gaatctccac  tccagccaat  aaaagtctct  ctgcttcatt  60
gttttgctg  tgcttctttt  ctccctccc  ttcggctcta  cgagctgcag  ctaatgcact  120
ggacttgat  gagacaatgg  tgtctccagt  ggcagtatgt  ttaagcccaa  cagtcaaagc  180
aatgttacca  gcagtcaatg  aagggatttc  tacatgttgg  tcagcaaacy  gcaaaagcag  240
acgacttatt  ctctccgtgc  agtttccatt  aatattatga  atggccaact  ggggttttat  300
agtgcctgag  taaatgcgca  taaaaaccag  tggctctcgc  tgcttgatcat  ggagaacttt  360
aatgccaat  gcacataagt  catccttata  ccactgcaga  aattca

```

406

<210> 476

<211> 311

<212> DNA

<213> Homo sapiens

<400> 476


```

actggatcta aaagggtttt cttagaaaagg gcaatattgt ccaatgaagt aagcagaagg 60
actctggggtt agaagcatct gcacaaaaaac tggtagagacc tactctccac tgctctgcag 120
ctggatggct gatggcaggc tgagcagtgg ggaagcagggt ttaacaaca gggagtccctt 180
ccaggtcact gtatattgag aagaaacata aaactattgt ctgttacatt ccgagggtcag 240
ccttcttctt aacgttttat aatatgcaaa tgccagcttc tggaaagcaa gtattatcat 300
gtacctcggc c 311

```

<210> 477

<211> 188

<212> DNA

<213> Homo sapiens

<400> 477

```

actacatttt ataacaatag agagtagctg aaaatactac atgctaacac agataatatg 60
atacacaacc tcagggggga agctggcagg gagcacgtgg cagaggccac aggttttagac 120
taagaatctt tcaatggact gctgaatgga ttggatctgc tgtttcagct gcgagccttc 180
tttgatgg 188

```

<210> 478

<211> 277

<212> DNA

<213> Homo sapiens

<400> 478

```

acaagatcca ctctgctaca gatgcgtctg tgaagagcct tgtgccatcc aactagtgc 60
tgaatgatgt cccatctctt atccgagcca gagcacacat cttccatgct gtccgctgat 120
tgcctccaaa tccagaagac caaataatcc tttatcccca aagtaggctc aaaacagttg 180
gttcaggcat tccgggatct gcacccctct taaatcccag gtaaatcaca agagggtgatt 240
aaagcccag cgaatgtgca aacttggtct ccccttg 277

```

<210> 479

<211> 573

<212> DNA

<213> Homo sapiens

<400> 479

```

gtccggttct tgccggggcc ggggttagtc cctgctggcc accccaactgc gaccatgttc 60
gttccctgcg gggagtgcgc ccccgacctt gccggcttca ccctcctaata gccagcagta 120
tctgttggaa atgttggcca gcttgcaatg gatctgatta tttctacact gaatatgtct 180
aagattggtt acttctatac cgattgtctt gtgccaatgg ttggaaacaa tccatatgct 240
accacagaag gaaattcaac agaacttagc ataaatgctg aagtgtattc attgccttca 300
agaaagctgg tggctctaca gttaagatcc atttttatta agtataaatc aaagccattc 360
tgtgaaaaac tgctttcctg ggtgaaaagc agtggtctgt ccagagtcatt tgttctttcg 420
agcagtcatt catatcagcg taatgatctg cagcttcgta gtactccctt ccggtacctt 480
cttacacctt ccatgcaaaa agtggttcaaa ataaaataaa gagccttaac tgggaagaaa 540
tggaaaaagc cgggtgcattc ctgaatagat gat 573

```

<210> 480

<211> 519

<212> DNA

<213> Homo sapiens

<400> 480

```

gcgtccgaaa agggctatat tttctagaat agtttaaat acagacattt gttatatatta 60
ccttatgtga aatacatcac tatttaatta cattaatattt aacatctgtt gtgtggagtt 120
gtatagttca tgcaaaagcc tgtgggtatg ggtttttcaa accagcagaa aggtcaaagg 180
tacctgaatg ctaaactgcc tggctcccag ctttttcatt aaacttttca gggctctggg 240
ttctttatct gtaaaatgac agagttggac cagttaactt taatggccat ctttttacac 300
cacacaagtt gataaaattt atctgttcag caaagagatt gaacaaaaaa gcacgttagt 360
aatatgaaga caggaaaacg aatgaaagtc taacacataa ctcatattga tttactttat 420
ttctgttaga ttttacactc tgaaaatttc acctcattta gtttgtacaa atactagaca 480

```

tggaactta aaatgtgcag gtgtcaaaag ctaaaaatc

519

<210> 481

<211> 233

<212> DNA

<213> Homo sapiens

<400> 481

cggaaggtgg gtgacgtgcg gatctacttc ttttggaggg tggggacacc tttcaacact 60
gccttcttgg ccttttaaagc cttcgctttg gcttcagctt taggaggggc aggagcttcc 120
ttcttcgcac atagagggga aaaaatacca gaaaggagtt cataaaaacc cagccgctgc 180
cagtatcatt cagtggctgg ggctgcggc tgggtctcggg ccagaagcc gga 233

<210> 482

<211> 328

<212> DNA

<213> Homo sapiens

<400> 482

acagtgaggg tgttcagagg gaggcacaaa gaatagctct gagattaggg aatggaaatg 60
acaaaaaagg gatgaataaa tccgatttga ataccaacaa tttgctcttc aaacctcctg 120
tagagagcca tatacaaaag aataagaaaa ttcttaaatac tgcaaaagat ttgcctcctg 180
atgcacttat cattgaatac agagggaagt ttatgtttgag agaacagttt gaagcaaatg 240
ggtatttctt taaaagacca tacccttttg tgttattcta ctctaaattt catgggctag 300
aaatgtgtgt tgatgcaagg acttttgg 328

<210> 483

<211> 348

<212> DNA

<213> Homo sapiens

<400> 483

acatgattac agacataaaa taacaggttc tgagttctgc ctttcagtga gaataaaggg 60
tatgatagtg gctgtgcatg gatgacttgt atctcagcgt taatagaatt tgatctgggg 120
aaagttcctt gccatagttc ctgagttgaa aacataatta catctgtgga gaaaggacca 180
aatggagtga actattgttt agagtattaa gttactatag ttcagattaa acaacacact 240
tacccaaaac ttaatttgga tggattttat ataaaatata taatagaatc ataccatcat 300
ctattttagt ccaaagtaaa aagattttat agaagaataa ggactctg 348

<210> 484

<211> 389

<212> DNA

<213> Homo sapiens

<400> 484

acagtaatcc tgcctgatag agtagtctgg aatgagaatt actttttggg tgagagagtt 60
ctceatttta atgttttctaa agtttttcat atgaacttgg cattggaaaa gggaggtaaa 120
gaaaaaggac gtttactaaa agcagtgtct actcttcccc tttgtgagtg tttattcatg 180
gctaataaaa aaaagagaag gactcttggg ttttgtgttg ccatgttaag catggagagg 240
gatgcttgac agcatgctaa ttgaagccag agcaagtatg tccttcatca ggtaatcagg 300
aactcttcag ttgaagctga ggaactaact gattagttgt tgatcataat ataattggtt 360
acaaagtgga agtgccagct ggcttaagt 389

<210> 485

<211> 215

<212> DNA

<213> Homo sapiens

<400> 485

acggggtgga atgatccagg ccctgggagg cttctttact tactttgtga ttctggctga 60
gaacggcttc ctccaattc acctgttggg cctccgagtg gactgggatg accgctggat 120

caacgatgtg gaagacagct acgggcagca gtggacctat gagcagagga aaatcgtgga 180
gttcaccctg ccacacagtc ttcttcgtca gtatc 215

<210> 486
<211> 396
<212> DNA
<213> Homo sapiens

<400> 486
ccacgcgtcc gtgagccgca agccaccggc atcttgcttt ttcttcccc tcctcctgtg 60
tgccccgcgg gacgtggggg ttccatttaa ttcccgccc caccgcgcaa aatgaacagc 120
tcggacgaag agaagcagct gcagctcatt accaggctga aggagcaagc aataggcgaa 180
tatgaagacc ttagagcaga gaaccagaaa acaaaggaga agtgtgacaa gggggggcaa 240
gaacgagatg aagccgttaa aaaactggaa gaatttcaga aaatttctca catggtcata 300
gaggaagtta atttcattgca gaaccatctt gaaatagaga agacttgctg agaaagtgtc 360
gaagctttgg caacaaagct aaataaagaa aataaa 396

<210> 487
<211> 266
<212> DNA
<213> Homo sapiens

<400> 487
gcctcggtaa taactttctg tcacggacct gaatcgttct tgtcctgctg tatcccatat 60
ttgtaacttt acatatttac caccaacatt tattatcttt gaaccaaatt cactcctat 120
tgtatgattt gagtcattct tgaatttttt tttcaataaa ctgatgaagt aagcaagatt 180
tgccagttcc tgcatttcca ataaccaaga acttaaacaa aaaatcgtag gtttaggaca 240
tggccgtctg cgacatcttg ggagcg 266

<210> 488
<211> 274
<212> DNA
<213> Homo sapiens

<400> 488
acccctccac agccctgttc cctggctcat cccaccttcc ctttccacag agctcgtccg 60
catggtgctg aatggctgag gaccttccca gtctccccag agtcogtgcc tttccctgtg 120
tgaattttgt atctagccta aagtttccct aggttttctt gtctcagcaa ctttcccatc 180
ttgtctctct tggatgatgt ttgccgtcag cattcaccaa ataaacttgc tctctggcaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaagc ttgt 274

<210> 489
<211> 275
<212> DNA
<213> Homo sapiens

<400> 489
tgctgaaca acaaaccaac tcaccactcc tgacaccatg agtcactacg gcagctacta 60
cggaggcctg ggctacagct gtggaggctt cggtaggctg ggctatggct atggctgtgg 120
atgtggcagc ttctgcagac ggggttcttg ctgtggctat ggaggctacg gatattggctc 180
tggctttgga agctacggat atggctcttg ctttggaggc tacggatatg gctctggctt 240
tggaggctat ggatatggct gctgccgccc atcgt 275

<210> 490
<211> 254
<212> DNA
<213> Homo sapiens

<400> 490
acctagaata gtggttctcg aagaatgcgg cctgcagatc ctgggagtcc caagaccctt 60
tcaggaggga tctgtgaggt caactgttgg cactgtggca tgaatcaagg tgggggcagc 120

```

aaacttctag tagttttgat atgtccttga tagaacaat agcaatgggt aactattaaa 180
tggtgacctg gccagcgagc tggctcatgc cctgtatccc agcactttgg gaggtgagg 240
cgggcggatc acct                                     254

```

```

<210> 491
<211> 271
<212> DNA
<213> Homo sapiens

```

```

<400> 491
acatttacaa agatgcgttc aaatagtgct ctaagagttt tggtcagtgg ctcaacttcgg 60
ctaaaatgca gaaatgcatg ctgtcagcgt tgggtatttca catttcaatg gagctgaatg 120
ttcaggacct cttcccattg aagctataat ttatttggac caaggaagcc ctgaaatgaa 180
ttcaacaatt aatattcatc gcacttcttc tgtggaagga ctttgtgaag gaattgggtgc 240
tggattagtg gatgttgcta tctgggttgg t                                     271

```

```

<210> 492
<211> 153
<212> DNA
<213> Homo sapiens

```

```

<400> 492
accgcggtgg cggccgaggt acctcctggg aaagggggcg ctgctgtctg gtgccctgtg 60
agctgtgatt gattgccttt ggtcagtaat gcgttcagga gtccacacca ggcacagatg 120
gggccttgaa acgctttgtc atgcttcttc agt                                     153

```

```

<210> 493
<211> 306
<212> DNA
<213> Homo sapiens

```

```

<400> 493
acttgtcata taaaatcatg gcattcattct gtgcctcctg tccatcatat tggccctttt 60
tggcagcaag ctgagactgg aagttatctg ctgccaacca gaattgtaag atattcactg 120
catcctcttt ttocatgtat cttgctccat tgcactaaag actatggact gtgcaaaaac 180
gaaacagttg ggatccacct gtccatcttc tccacaaatc cttgctatga tgtcattttc 240
tcattgcttc tgaatttggg attggtttag cagcatctgg agatatatat ttggtaaaaa 300
tattca                                     306

```

```

<210> 494
<211> 444
<212> DNA
<213> Homo sapiens

```

```

<400> 494
cctgatggaa gagagggctg tgtgtcacag ggattcccaa gccactaaag cacattccca 60
ggaccatata atcgggagca tcattgctgt agcatcgaca ttactggcg agaagtctcc 120
tgacggcttc tctgctgaag accattcctc ctctcccgt gatgtagctg tagccaccag 180
tgcccaggcc gtagccgtag cgctctccca gaaacacagg cttgccggag tcataacagc 240
taagcaagtg ctggagcctg gagatactta ttaatgtatc atcatccaca atgactaacc 300
atgctgtttt gtccctggcta cgattcagaa atctttccaa aatggcaaat gtctttccac 360
aatgacctct atctgtatta ggaattccca aatccacagt aggaatggaa ttttcagttt 420
agtcaactata gtattcaatg agac                                     444

```

```

<210> 495
<211> 493
<212> DNA
<213> Homo sapiens

```

```

<400> 495
ccacgcgtcc gagcttgaac actgttgatg ttcttgaggg aggcataattg ggcttttaggc 60

```

```

tgtaggtcaa gtttatacat ctttaattatg gtggaattcc tatgtagagt ctaaaaagcc 120
aggtagcttg tgctacagtc agtctccctg cagagggtta aggcgcagac tacctgcagt 180
gaggaggtac tgcttgtagc atatagagcc tctccctagc tttggttatg gaggctttga 240
ggttttgcaa acctgaccaa ttttaagccat aagatctggt caaaggata cccttcccac 300
taaggacttg gtttctcagg aaattatatg tacagtgcct gctggcagtt agatgtcagg 360
acagtctaag ctgagaaccc cttctctgcc caccttaaca gacctctagg gttcttaacc 420
cagcaatcaa gtttgcctat cctagagggtg gcggatttga tcatttggtg tgttgggcaa 480
tttttggttt act 493

```

<210> 496

<211> 153

<212> DNA

<213> Homo sapiens

<400> 496

```

caggagtcta aactcacagg catcaagcga atgctatgca cccagagagg ctactttaac 60
aaaatttttg taaatatattt ccgatgtaaa ataaaatgtg ttccctggaa aaaaaaaaaa 120
aaaaaaaaag aaaaaaaaaa aaaaaaaaca aaa 153

```

<210> 497

<211> 365

<212> DNA

<213> Homo sapiens

<400> 497

```

acaagctttt tttttttttt tttttttttt ttttttggtt tttttttttt tttttttttt 60
tttagaaggc tgtaaagctt tattgggaga attttaatga acaaatttcc aacataggag 120
cagcctgcat catttcaacg tgcctttttt taacactgag attgcttttc accttcttca 180
ggcgttttca cctccttttg atttgccggg tccatttcct gcccatcagg accattttca 240
cactcacacc cagtctgggg gtgaccctgt tcctggctat cagcttcagg cttcggccct 300
tgacctgcag atgctccctt atcctttccc tcctgagcag ctgcaggatc ctgacgttga 360
gttgc 365

```

<210> 498

<211> 366

<212> DNA

<213> Homo sapiens

<400> 498

```

actctgaact ttcaaggagg ccagagcagg aaagggaag gaataacccc caccaccccc 60
aacacaagag aggcacaaat tagagggtct ggcacaggct gtagccctgg gtgagggggt 120
aagcagcttg acagttgctc tgtggtctct gggatataat tctgcccagg gctagaacca 180
cagagaagag tttgcaactt taagtccagg aaggggacta cctggaaggc ctgagaacaa 240
aggagaaagt ttagcacact aaacacatgg ccaggaccct agggacacaa ggcagctgga 300
gagtgggata ttttgttaaa tggcatggta ggcagattag aatcctggct ataatcccta 360
gggcc 366

```

<210> 499

<211> 571

<212> DNA

<213> Homo sapiens

<400> 499

```

gtggaactga ggatgcagca ttcaagggtc tatcttgga gacagagactg tgccctcacc 60
agatgctgaa cctgctgagc accctgatct tccaactcac cttcatcaga actactgggg 120
ctgtggctga gatgtcacat ggcagatagg atcacaaatt tctgttgtat ctggatggag 180
atcagcagga ggatctatgg gtgagaagaa gcacagttac agatggattc tagagcctgc 240
ttgctgacac aggcttgcaa ctgaggactt tataagctta gtttttaata tgctatcagc 300
tagcataata ccataaatgc ataaaaaact aagtattcag tcttacgaga aatgctatct 360
tgacctgacc ctttctccaa ataaattgac aaaatatctc atcgtctagg atgccagaca 420
gaaataccag ttgcaatgtt ttgttgcata aagtttatcc taatttaaat tagtggcata 480

```

taaagtcatc atcttgcttg aacaaacatt ttatttaaatt gagcatgtcc tttatcccat 540
gaaatgaaat taatttttgag atagttatatt t 571

<210> 500
<211> 461
<212> DNA
<213> Homo sapiens

<400> 500
acgttgctac gacgacctca gtgcctact gtgggggcta gaggggtctcc cactgaccgt 60
gtctgtctgtt caggagagctc acccagtgtc gcgtacacac gaggtgttcc caccactcc 120
agtccgtcca gccttctcct tctatgagac tctgcgggag cggctctcac tgetgccccg 180
gtctgataag ccctgtccgg cctacgtgga gcccatgacc gtggtttgtc acctggaggg 240
cagtggccag tggccacagg acgctgaggc cgtgcagcgg gtccgagctg ccttccagct 300
ggcctggca gagctgttga cacaacagca tgggtctgcag tgccgtgcca ctgccacgca 360
cacggatgtc ctttaaggatg gatttgtgtt tcggattcgc gtggcctatc agcgggatcc 420
ccagatcctg aaggagggtc agagcccaga ggggatgatc t 461

<210> 501
<211> 270
<212> DNA
<213> Homo sapiens

<400> 501
actagtttaa ttctgatctc tctctagaag gcagaaacca catcccacac tcctatgcaa 60
tttgttatatt tgggtattgta aagtaaataa ataagaaggg gtggaggcat aaagaaaatc 120
tagtttctgg ctgggcaggg tgggtcacgc ttgtaatccc gcactttggg aggccaagc 180
gggtggatca cgaggtcagg agattgagga tcatcctggc caacatggtg aaaccccggt 240
tctactaaaa atacaaaaat tagccgggct 270

<210> 502
<211> 253
<212> DNA
<213> Homo sapiens

<400> 502
actgatcaga tcaaggacct cccccaccct totcacactc tgcccacttc cgccctttgc 60
ttatcagacc cttagccagt gactcattcc agaaccagaa ccttggtgaa atctcaaccg 120
acaccagaga tcggtgtcct cagtctaga ctgatggaga aaatccagaa tatatactag 180
aagctccaaa tgetctgggt ttcagctcct ctgtgtgtgt gacactgact ttggctcaga 240
actccgattt agt 253

<210> 503
<211> 203
<212> DNA
<213> Homo sapiens

<400> 503
acaaagtcag aactgcctgg atggctacat atacaccgga aaactggtaa gtttcaaaca 60
ttacctctac aatcttctct ctgttttttg ttgggttcat aggaggttct gtgagtaaga 120
ttttacaatt tctggtatct atattaagtt tctctgggtc aaatgtgtag tcccacaggt 180
gtttcatgtc atcccaattt cgt 203

<210> 504
<211> 509
<212> DNA
<213> Homo sapiens

<400> 504
acaagctttt tttttttttt tttttttttt tttttttttt tttttttttt 60
ttttgggacc cccaaaacca tcctttattg gagtattagt tcatgggaac tgcatgaaaa 120

```

acatttcagg ggaattttac aatttcagc ttaaaaaact tgcccaccaa. cataaccatt 180
ttatgaaagt caattcatta aagggtttta aaccttttgt tgggcatgat ggcaagggac 240
aaagctccaa cttggcctgt ccctttggaa gctgaggcag gaggaccatt tgagcccagg 300
agcctgaac cagcctgggc aacataaaaa atccgtctca acaaaaaaaa attttacca 360
ggtgtgctgt gagctgtatt ccagctaca aggggggagg attgcttagg cctgggtgat 420
tgaggatgca atgagctgtg attgtgccac cacactccag cctgggcaat acagcaagac 480
tgttttaaaa aaaaaaaaaa acccaaaaaa
509

```

<210> 505

<211> 545

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(545)

<223> n = A,T,C or G

<400> 505

```

ggcgaattgg agctccaccg cgggtggcggc cgaagacact gcgactccgg agacagccca 60
aatatcctcg gaggaccgct ccaagaaaaa acaggctgga ccactatgct atcatcaagt 120
ttccgttgac cacttgattc tgccatggaa aaaaatagag gacaacaaca cacttgtgtt 180
cattgtgatg ttaagccaac aagcaccaga ttaaacaggc tgtgaagaag ctgtatgaca 240
ttgatgtggc caaggtcaac accctgattc ggctgatgg agagaagaag gcatatgttc 300
gactggctcc tgattacgat gctttgggat gttgccaaca aaattgggat catctaaact 360
gagtccagct gcctaattct gaatatatat atatatttc tttcacctc ggccgctcta 420
gaactagggtg gatcccccg gctgcaggga atttcgatat caagcttatc gatanccgtc 480
gacctcgagg gggggggccc ggtaccagc tttttgttcc ctttagtgag ggtaattgc 540
gcgct
545

```

<210> 506

<211> 533

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(533)

<223> n = A,T,C or G

<400> 506

```

acagggttct tcatcataca caaaccttcc acagcccagc gctccaaccc acagcacctc 60
ctgcagtcc tttatgcttc ttgtttcttc tccatcaata atatgtcagt caactgcttg 120
tcagagacac ttagctgctg acaggctctc ataacctgac tcaggtaaac tgccaagaga 180
tgcttgcact gcaactctca cgtagtcct aagttatatt tcttccttgc cttcagaaag 240
ctgtcacagc aatggttaac attccttgag gcactaggct gtgaagtgt tctcatagat 300
tatctcactg aaatctgaca gctoccagga tgctgtcact cttccgtagc actgagaatg 360
caaatgcagg acatgaacag taatgacaag aagccaaaca tgntgtatgt tttactggaa 420
cttccaagga cctggtaaac acgccttccc tgggtgatga gattaagtga tggactgtcg 480
atcactagggt ccaggcctgg gtggctgatg agccaaagag aaacttcagc gat 533

```

<210> 507

<211> 539

<212> DNA

<213> Homo sapiens

<400> 507

```

accagagtt gcgaggagtt ttttaactga tttagccagg tggcaatcat gagtgaatgg 60
atgaagaaag gctccttaga atggcaagat tacatttaca aagagggtccg agtgacagcc 120
agtgagaaga atgagtataa aggatgggtt ttaactacag acccagtctc tgccaatatt 180
gtccttgtga acttccttga agatggcagc atgtctgtga ccggaattat gggacatgct 240

```

```

gtgcagactg ttgaaactat gaatgaaggg gaccatagag tgagggagaa gctgatgcat 300
ttgttcacgt ctggagactg caaagcatac agcccagagg atctggaaga gagaaagaac 360
agcctaaaga aatggcttga gaagaaccac atcccatca ctgaacaggg agacgctcca 420
aggactctct gtgtggctgg ggtcctgact atagaccac catatggtcc agaaaattgc 480
agcagctcta atgagattat tctgtcgcgt gttcaggatc ttattgaagg acatcttac 539

```

```

<210> 508
<211> 416
<212> DNA
<213> Homo sapiens

```

```

<400> 508
actactttta ttctgatctc tctctagaag gcagaaacca catccacac tcctatgcaa 60
tttgttattt tggatttgca aagtaaata ataagaaggc gtggaggcat aaagaaaatc 120
tattttctgg ctgcgagggg tggttcacgc tcgtcatccc gcactttgag aggccaaggc 180
ggatggttca cgaggtcagg agattgagga tcacctctgg caacatggag ataccccggt 240
tctactaaac atactaaaat tatgccggac ttggtgacat gcgccgtag tcctagctac 300
tcgagaggct gaggcagggg aatcacttta actgggaggt ggaggttgca ttgagccaag 360
atcgacccat tgcaactccag cctgggcaac agggtagagac tctgtctcaa aaaaat 416

```

```

<210> 509
<211> 398
<212> DNA
<213> Homo sapiens

```

```

<400> 509
actagtttta ttctgatctc tctctataag gcagaaacca catccacac tcctatgcaa 60
tttgttattt tggatttgca aagtaaata atacgaaggc gtggaggcat acagaatatc 120
tagtttctgg ctgggcaggg tggttcacgc ttgtaatccc gcactttgag aggccaaggc 180
gggtggatca cgaggtcatg agattgagga tcacctctgg caacatggtg aaaccccggt 240
tctactaaaa atacaaaaat tagccggcct tgggtgacat gcgctgtagt cctacctact 300
cgtgaaggct aggcaaggga atcacttgaa ctgggaggcg caggttgca tgacgccaac 360
atcgacccat tgcaactccag cctgggcaac agggtagag 398

```

```

<210> 510
<211> 560
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(560)
<223> n = A,T,C or G

```

```

<400> 510
cgcgtccggt cagtgtttac actgtcaagg atgacaagga aagtgtccct atctctgata 60
ccatcatccc agctgttcct cctcccactg acctgagatt caccaacatt ggtccagaca 120
ccatgcgtgt cacctgggct ccaccccat ccattgattt aaccaacttc ctggtgcggt 180
actcacctgt gaaaaatgag gaagatgttg cagagttgtc aatttctcct tcagacaatg 240
cagtgttctt aacaaatctc ctgcctggta cagaatatgt agtgagtgtc tccagtgtct 300
acgaacaaca tgagagcaca cctcttagag gaagacagaa aacaggctct gattcccca 360
ctggcattga cttttctgat attactgcca actcttttac tgtgcaactg attgtctctc 420
gagccaccat cactggctac aggatccgcc atcatccga gcacttcagt gggagacctc 480
gagaagatcg ggtgcccac tctcggaatn ccataccct caccaacctc acttcaggga 540
cagagtatgt ggtcagcatc 560

```

```

<210> 511
<211> 290
<212> DNA
<213> Homo sapiens

```


<400> 511
 actttttttt tttttttttt tttttttttt aaaaaagagg ggggggttcaa ccttttggcc 60
 cgggtgggtt taaacccctt accctagggg aacccccctc cttggccccc caaaaggggtg 120
 ggaataaagg gggaaacccc ccccccgagg cccctttttt tttttttttt tttaaaaaaa 180
 aaattttttt taaaaaattt tttttgggaa aacttttaaaa aaaaaaaaaa accgcctttt 240
 aacccaaggg ggtttttttt tttttttaa aaaaaatccc ccccaagggg 290

<210> 512
 <211> 374
 <212> DNA
 <213> Homo sapiens

<400> 512
 gcggccgagg taccactgcc cactttcctg gttgctggag ggagcctggc cttcggaacg 60
 ctctcttgca ttgccattgt tctgaggaat cattctgcct gaaaaacgtg tgggtggcctt 120
 aatggcacag cctggcttga agatgaggca ggagtgggaa agtgcccaat ccaagaagca 180
 aggagggaaa ctgctcacac cccttcagga agcaatggaa ccgtttcccc tctcaccacc 240
 aaggtcacac aggaaaggcc accagcagga acatcatatt gatgctaatt gccccctccc 300
 catttccttg ttgccatctt tacccttgaa ctactgtacc tgcccggggc gccgctcgat 360
 gcgttgcgct cact 374

<210> 513
 <211> 277
 <212> DNA
 <213> Homo sapiens

<400> 513
 acaaaagttt atatgatagt gtcttgctgc ctgtttctac aaaagccaag ggtgtaacat 60
 taaatgcaat ttgtcaaggg gctgagggtga tgtgggtccaa gtatgtaatc acttcaggga 120
 gccatatgtg accttcatac actgttgata atggccatgc ctcccagtca ggctgtgac 180
 acctgctgga cagcaggcat tccaaggccc ctaagcactg agttagctgg taaagggttaa 240
 ggaaaaagct gtattcttac tactttactc caaggta 277

<210> 514
 <211> 410
 <212> DNA
 <213> Homo sapiens

<400> 514
 accctataaa ttatataaaa taaaagagtt taaggaggtt caaggatgcc atatatatat 60
 tttaaaaaaa ttctaaaggg aagtctaaaa aacataaatt ataattattac ccaaaataag 120
 atgctacttt tcacctaac aagtcctgcc tcatttcaca cttaaacctc ctaagtatat 180
 tcataatcct accaaaagtt gttttcttta aaaagtaaga aactttaggg ccagcgcaat 240
 ggtgcaagcc tgtaatccct gcactttggg aggccgaggc aggtgaatcc ttttaagggtca 300
 ggagttcgag accagcctgg ccaacatggt gagacacact cccccacccc tgcccagttc 360
 ctagtataaa tgcaaaaatt agccgggcgt ggtgggcgtg cacctgtaat 410

<210> 515
 <211> 291
 <212> DNA
 <213> Homo sapiens

<400> 515
 gcgtggcggc cgcccgggca ggtacgagtg gaggacaggg acagagccct ctgtgggtgga 60
 acgaccccac ctcgaggagc ttcttgagca ggtggcagaa gatgcggtaa gatgggcctt 120
 gtgatgagct gtaggagtg agtgggagct gcttgtcccc tccccacccc caacagccca 180
 acccaagacc cagagagaag aaggaggat ttctgtgaga gtgactgtag gtagaagggc 240
 ccaggaggcc ctactccttt atttttctga gtatagggtga gtgagtggca c 291

<210> 516
 <211> 216

<212> DNA

<213> Homo sapiens

<400> 516

```

gtaacaactt ggggaaacaa tcccggatgg cacttacata ggcggactgg tccgagaagg 60
tgctgcacaa cgggttcctt tctagccata gctcttcgag cttcagccct ttcaccttgc 120
ccaactccca cgctgactcc agcttatttt tggagagatt caggggtctt actttgggag 180
ccttctctgt aatgtcagaa aggccatcca gctgggt 216

```

<210> 517

<211> 208

<212> DNA

<213> Homo sapiens

<400> 517

```

acaatggaac tgtattttcc caaatgttg cagatcagtt acaacaaaca gaacggcgac 60
cgtcaaggaa aactgtcact ctgggctcct ttttgaccac agcagctatg cggaagcagc 120
tgcagcttcg ataaggcca aggggcaatt cagatcccag ggcggcgcc taaagcctca 180
cctgtccatc attactacct gcttaagt 208

```

<210> 518

<211> 192

<212> DNA

<213> Homo sapiens

<400> 518

```

actattagaa acaaaattga gcaagttaag ttaaaagttt gctgactttg tatcaacact 60
atagaagatg agccaccttg ttaatttgga atatttgctc tgaaaagaac atgttagtta 120
caccttaatg gtgttaatgg aggtggggat tgagaaaagt gttcacatta gtgttggaat 180
gtaggttaatt gt 192

```

<210> 519

<211> 590

<212> DNA

<213> Homo sapiens

<400> 519

```

cgcgctcgaa actactcttc tttgctaggg tcctttaccc acacagaggt gagcctttca 60
ggttcttcat tttgcttagt ttctttcctt gtccttggca ttttaagaggc atccatgtgt 120
tagccagcca aagccccctg aaggagctgg ctgctttaaa ggatttactt gggaggatgt 180
caaatggctt tgccctctgc agacttcatt tattttaatc tttttatggc tcctttctct 240
tgcttttaaaa caggattata agcacacagc aggtactgac acctgaagtc ttactaaatt 300
cctgtcctca ggccatcctt tttctcctga aacctggact ccaattttca atgacgtttt 360
tgtttttctc tttcaagcct aactatggga cagctttacg agaaggaaaa agatgaagat 420
ggattcttat atgtggccta cagcggagag aacacttttg gcttctgagg gccattgctg 480
ggctaggtgc accgtaactg cttgtgtatc ttgtaaatag ccagccattt tcagttatta 540
taccagaacc ttttcacata gacctattaa tgcatttgta actggattta 590

```

<210> 520

<211> 421

<212> DNA

<213> Homo sapiens

<400> 520

```

acctttagta gagacggggg tatatcatgt tgcccagggt ggtctcaaac tcctgacttc 60
aggcaatcca cccacctcgg cctcccaaag tgctgggatt acaggcttga gccgctgcgc 120
ctggcccaaa ctgatgtctt atccttctta gtgcctcaca ccagatcctg ttcagacatg 180
ttataacaaa ttagtatgag ttattttttg cacaattttt gacatctatg catagttttt 240
cacaatacac attttcctta aagggtttga ggacctttt gtgtgactgc agacgcttct 300
acagtctgtg acttgtcttc tccttttcct aaagggtggc ttgatggctt tttaaaattt 360
tgattgaaga acaacttacc aatttaccag tttgggttaa ttttgggtta acgctttttg 420

```

t 421

<210> 521
 <211> 192
 <212> DNA
 <213> Homo sapiens

<400> 521
 acacctacac ggatgcgaac ggcgataaag cagcatcgcc cagcgagttg acttgctctc 60
 cagggtggga atgggaagat gatgcatggt cttatgacat aaatcgagtg gtggatgaga 120
 aaggctggga atatggaatc accattcctc ctgatcataa gcccaaatcc tgggttgacag 180
 cagagaaaat gt 192

<210> 522
 <211> 192
 <212> DNA
 <213> Homo sapiens

<400> 522
 acattttctc tgctgcaacc caggatttgg gcttatgatc aggaggaatg gtgattccat 60
 attcccagcc ttctcatcc accactcgat ttatgtcata agaccatgca tcatcttccc 120
 attcccaacc tggaggacaa gtcaactcgc tgggcgatgc tgctttatcg ccgttcgcat 180
 ccgtgtaggt gt 192

<210> 523
 <211> 189
 <212> DNA
 <213> Homo sapiens

<400> 523
 tacctccacc tcatgaccgc ctataaacat ttctcacttc caagcattac ctctaatact 60
 gattattcta gacgtcattt ttttggtaaa caagacttaa ttaaaatttt accgaatttc 120
 cttttacttt ttttaacctt tccttattag catacctgtg tttctttcac attaaattta 180
 ataattact 189

<210> 524
 <211> 503
 <212> DNA
 <213> Homo sapiens

<400> 524
 ctggaatata atcagtggtt cacaaaactg tcctctaagg atctaaaact gtccactgat 60
 gtctgtgaac agatcttgag ggtggtgagt aggtccaatc gactggaaga attggtgttg 120
 gaaaatgctg gacttagaac agattttgca caaaaactgg ccagtgctct agcacataat 180
 cccaactcag gactccacac aattaacctt gctggcaacc cactggagga tagaggtgtg 240
 tcctctttta gtattcaatt tgccaaactc ccaaagggct taaagcactt aaatttatct 300
 aaaacctcat tatcacctaa aggggtgaac agcctttctc agtcactcag tgccaatcca 360
 ttgaccgcct ctacccttgt ccacctcgac ctctcaggga acgtccttcg tggagatgac 420
 ctctcacaca tgtataattt tttggcccag ccaaatgcca ttgttcatct ggatttatcc 480
 aatacagaat gttccctgga cat 503

<210> 525
 <211> 240
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(240)
 <223> n = A,T,C or G

<400> 525

gatctccacc gnggtggcgg ccggttcca gtcgccccg gggtagcggg tctcgttctg 60
 atagacttca tcagtgaact ccgtgtgacc tgcattctgcc tcagtcagca agcttctttc 120
 aggatcaact atccactctc cttcccatc ccagcctttt ggaggcagaa aaaattccct 180
 cttgagtttt atttttcccg tgacatcaga aaacttatga cgtcctacta atccagaagt 240

<210> 526

<211> 471

<212> DNA

<213> Homo sapiens

<400> 526

attcgggtgct tcccaacacc tccttattgg aaaacagcca aggagatggg ggctaactgg 60
 aggcattcacc cagcagtggt ggagcagtg agcaagggtca tttgtgcact cacttccaga 120
 ttgctacgct ttacatatgg tccttcattt cctgcattta aagttcccg tgaagatgcc 180
 agtctgatcc ctccagaaat ggataatgag tgtgttgacac agacatgggt tcgcttttta 240
 cacatgttaa gtaatcctgt ggatttgagt aaccagccta ttataagctc tactcccaaa 300
 tttcaggaac agttcttgaa tgtgagcggg atgcccgaag aattgaatca atattccctg 360
 ccttaaacad ctgcctcaaa ttttttttcg tgccatgcgt ggaatcagct gtctgggtgga 420
 tgcattctta ggtatttcta gaccccgatc agacagtgc cccccaacac c 471

<210> 527

<211> 404

<212> DNA

<213> Homo sapiens

<400> 527

ccacgcgtcc tgtacaaaac atgacaattc agaattaagt gggtatatctc tgctatgcaa 60
 tcatcagagg atgaggggta agaatgagac aatctttact acgatgttca gacttatcat 120
 gatggacccc acttcagaga agttaatggc tcttgagatt tccaggcaaa tttcatctctg 180
 tcatatctgg tttctgtgca tcaggagtga gactgaagtt ctagggcgtg gcttgtctgt 240
 cgaggccctt ctctactgga atgaatgaat gtaaagaatg ggtgttaaga ggtccctgga 300
 gctgccttca acataagggg tcctagaggg tgcaagactc atcaagaacc agtttaccct 360
 atgcaatagg actgctaaag ccagagaaat ggacaaagcc cagt 404

<210> 528

<211> 636

<212> DNA

<213> Homo sapiens

<400> 528

ggagacttg tactgagaga tcccctcata atttcccaa agcgtaacca tgtgtgaata 60
 aattttgagc tagtaggggt gcagccacga gtaagtcttc ccttgttatt gtgtagccag 120
 aatgccgcaa aacttccatg cctaagcgaa ctggtgagag tacgtttcga tttctgactg 180
 tgttagcctg gaagtgcttg tcccaacctt gtttctgagc atgaacgccc gcaagccaac 240
 atgttagttg aagcatcagg gcgattagca gcatgatatc aaaacgctct gagctgctcg 300
 ttcggtctatg gcgtaggcct agtccgtagg caggactttt caagtctcgg aaggtttctt 360
 caatctgcat tcgcttcgaa tagatattaa caagttgttt ggtgttctga atttcaacag 420
 gtaagttagt tgctagaacc catggctcct ttgcccagcg tgagtagatt ttaggtgacg 480
 ggtggtgaca atgagtcctg gtcgagcgt gatTTTTTcg gccttttagag cgagatttat 540
 acaatagaat ttggcatgag attggattgc ttttagtcag cctcttatag cctaaagtct 600
 ttgagtgact agatgacata tcatgtaagt tgcctga 636

<210> 529

<211> 250

<212> DNA

<213> Homo sapiens

<400> 529

actggcgcgt gtggctgatg ttctgatgcc accatctttc ttggagggga cgtgcccag 60

```

gagcactgtc agtcttctgc tgaccccgca gcccagagc acaccttgc tcgttcagtc 120
cagttcacag gaggctgaa cagtgggacc aggtcggtct gtgaatttca cacttaattt 180
ttctctcttt taaaatcttt aacatgaaga tggcttttct aaacttttaa aaaaaaaaaa 240
aaaaaaaaaggt                                     250

```

```

<210> 530
<211> 272
<212> DNA
<213> Homo sapiens

```

```

<400> 530
ggggcgccg aggtacacac taagataaag gatgatcttg aagaccttat agttaattgg 60
gatgagagca aaagcattgg tgacattttt ctgaaatatt caaaagattt ggtaaaaacc 120
taccctccct ttgtaaactt ctttgaaatg agcaaggaaa caattattaa atgtgaaaaa 180
cagaaaccaa gatttcacgc ttttctcaag ataaaccaag caaaaccaga atgtggacgg 240
cagagccttg ttgaacttct tatccgacca gt                                     272

```

```

<210> 531
<211> 217
<212> DNA
<213> Homo sapiens

```

```

<400> 531
acttctggat tagtaggacg tcataagttt tctgatgtca cgggaaaaat aaaactcaag 60
agggaaattt ttctgcctcc aaaaggctgg gaatgggaag gagagtggat agttgatcct 120
gaaagaagct tgctgactga ggcagatgca ggtcacacgg agttcactga tgaagtctat 180
cagaacgaga gccgctaccc cgggggcgac tggaagc                                     217

```

```

<210> 532
<211> 242
<212> DNA
<213> Homo sapiens

```

```

<400> 532
acatttcccc ttatgggtgac gatgctctga ctcgtttagg tagacacatt gaccaccttc 60
cattccatta aatatttttt cctttttccc cttttotgtgt cattcttgag gaaaaaaca 120
aagagagagg ggatgccaat gatccccttg agcagagaaa aagcaaaata aatattttat 180
taaagaaaaa agagaattaa gaaaatagtt tggagtattt tcttactgta gagaagcact 240
gt                                     242

```

```

<210> 533
<211> 436
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(436)
<223> n = A,T,C or G

```

```

<400> 533
gcggtggcgg ccgaggtanc agcttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tcaaagccaa tatttaaatc 120
caaaaagaat aaaaaaagtg cctttgggct tttttttccg ccgccccgct ccccccaaaa 180
ccccatccac cccccagaaa accccccccc ccgacacacc caaaaccccc ccaaaaaacc 240
cccccaacc ccttgttttc acccgggggg ccgcgcggac acacccccct gcaaaaaaaa 300
accccccaaa agtccccccc accgggggtt atctcctttt aaggggctag agagccggaa 360
aaacccccac ctggtcccc ccccccccg gggatatttt cccacggaa aaaaatcccg 420
aaccaaaaaa aacccc                                     436

```

```

<210> 534

```

<211> 217

<212> DNA

<213> Homo sapiens

<400> 534

```

acgataattg tgttgatttg tctgttgctt tttggattct ccaagatcca ggaaatgctc 60
atgagcatga ttctttgaga cagtgggtat tttattctct tttggaacag ttaagtgttt 120
tcttttctct tctgacctgt aagtctttat ttcttcttct ccctttgcag ttctccattc 180
ttcttgcccta ctggctacac cagctgatag ctcggtt 217

```

<210> 535

<211> 342

<212> DNA

<213> Homo sapiens

<400> 535

```

gcagccgaca gctttgcagc ggtgtgttct aggtcagtggt cttcaaagac tccagttgga 60
ttcattggac tgggcaacat ggggagtgcca atggcaaaaa atctgatgaa acatggctat 120
ccacttatta tttatgatgt gttccctgat gcctgcaaag agtttcaaga tgcaggtgaa 180
caggtagtagt cttccccagc agatgttgct gaaaaagctg acagaattat tacaatgctg 240
cccaccagta tcaatgcaat agaagcttat tccggagcaa atgggattct aaaaaaagtg 300
aagaagggtc cattattaat agattccagc actattgatc ct 342

```

<210> 536

<211> 451

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(451)

<223> n = A,T;C or G

<400> 536

```

actaatgtta ttaatgtggc tgacaagtaa ttagaaaact ggaaattaaa ttttacaac 60
atttttaaaa tcgctacaat taataaaatt caagatgggt acattatgaa tatgaatgaa 120
atgtcattag cgacttcgtt aaatgtatat gtaattctat attttcccca aaaccacat 180
tttatgaaga atattttatt atttatttat ttttgttttt tgagatggag tctcgctctg 240
ttgccagact ggagtgcatt ggtgcgatct ccgctcactg caacctccac ctctgggtt 300
caaacgatcc tctgcctca gcctcccgag tagctgggac tacaggcacc gncaccacgc 360
ccggctaaat tttgtatttt tagtagagac aggggtttcac catgttagcc aggatggtct 420
ccgtctcttg acctcgtgat ccacccgcct t 451

```

<210> 537

<211> 247

<212> DNA

<213> Homo sapiens

<400> 537

```

agtgactatg atacggtagt ccatoctttc tacgcttatt ggcagagttt ctgcactcaa 60
aagaattttg catggaagga agaatatgat acacgcacag tttcaaaccg ctgggaaaaa 120
cgagccatgg aaaaagaaaa caaaaagatt cgggacaaaag caaggaaaga gaagaatgag 180
cttgtccgtc agctggtagc tttcattcgt aaaagagata aaagagtgca ggccatcga 240
aaacttg 247

```

<210> 538

<211> 444

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(444)
 <223> n = A,T,C or G

<400> 538
 cctccactgc tttggcttgt ttcgtttgtag gctgctcttc tgtctgtgac tcaatctcta 60
 attctcgcct tgccacataa tcccaagtga gaggatcatc tgtgtgtaga gcctgaagggt 120
 catcataaat ctctttttgt agatctttgg caaagtcaaa tagctgtgca atcgaaagca 180
 gtgacacgtg aaattctgca cctttaatta tgcttacaga atttttgtag atgatccatg 240
 ccaactcgcc cttaaggatt tcttcagaat aatcaggatt ctccacatcc atactggctt 300
 tttcaaattc ttccttctcc ttcctcagtt tttcagcatg catcagctcc atcctaaagt 360
 attctttata aagttntggg cactctggat gaaagcgag tgcggaaga aatagttgcc 420
 ttgcgctttc tgaagacaat cgat 444

<210> 539
 <211> 497
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(497)
 <223> n = A,T,C or G

<400> 539
 actaatgtta ttaatgtggc tgacaagtaa ttagaaaact ggaaattaaa ttttacaac 60
 atttttaaaa tcgctacaat taaaaaaatt caagatgggt acattatgaa tatgaatgaa 120
 atgtcattag cgacttcgtt aaatgtatat gtaattctat attttcccca aaaccacat 180
 tttatgaaga atatttattt atttatttat ttttgttttt tgagatggag tctcgtctctg 240
 ttgccagact ggagtgcatt ggtgcgatct ccgctcactg caacctccac ctctgggtt 300
 caaacgattc tctgcctca gcctcccgag tagctgggac tacaggcacc gccaccacgc 360
 ccggctaatt tttgtatttt tagtagagac agggtttcac catgttagcc aggatgggtct 420
 ccgtctcttg acctcgtgat ccaccgcct tggcctncca aagtgcgggg attacagacg 480
 cgagctaccg tgcccag 497

<210> 540
 <211> 303
 <212> DNA
 <213> Homo sapiens

<400> 540
 atgagatagt agcatacatt tataatgttt gctattgaca agtcatttta actttatcac 60
 attatttgca tgttacctcc tataaactta gtgcggacaa gttttaatcc agaattgacc 120
 ttttgactta aagcaggggg actttgtata gaaggttttg gggctgtggg gaaggagagt 180
 cccctgaagg tctgacacgt ctgcctaccc attcttggtg atcaattaaa ttaggtatg 240
 aattaagttc gaagctcgt gaggggaacca tcattataaa cgtgatgatc agctgtttgt 300
 cat 303

<210> 541
 <211> 574
 <212> DNA
 <213> Homo sapiens

<400> 541
 cctcactaaa gggaacaaaa gctgggtacc gggccccc tcgaggtcga cggtatcgat 60
 aagcttgata tcgagttcct gcggcccggt ggatccacta gttctagagc ggccgaggtg 120
 taaatttaac tgtagtcca aagaggaaca gctctttgga cactaggaaa aaaccttgta 180
 gagagagtaa aaaatttaac acccatagta ggctaaaag catgccacca attaagaaag 240
 cgttcaagct caacaccac tacctaaaaa atcccaaca tataactgaa ctccctcacac 300
 ccaattggac caatctatca ccctatagaa gaactaatgt tagtataagt aacatgaaa 360
 cattctctctc cgcataagcc tgcgttcaga ttaaaacact gaactgacaa ttaacagccc 420

```

aatatctaca atcaaccaac aagtcattat taccctcact gtcaacccaa cacaggcatg 480
ctcataagga aagggtaaaa aaagtaaaag ggacctcgca aatcttaccg cgctgttta 540
ccaaaaacat cacctctagc atcaccagta tttag 574

```

```

<210> 542
<211> 366
<212> DNA
<213> Homo sapiens

```

```

<400> 542
acgattccat cagtttagctg cagcatcaac attcgtgaag gctttgcttc ccaagggtttt 60
ggggttactt gtgcttcagc tgtaactaga tcatttggtg tattctttcc tctcaacttc 120
tgtatctggg agtatgcagg ctgacttaca tcaaccaagg aattaatctg cagagcataa 180
aatccattta attctccttt tggaatttct aaaatgccat cgggtaaaag aggatgctcc 240
aaatccctca gatcagtaag gagccactgc tcaaactctt gtttattcat ttgggcctga 300
ctcaagttaa cattattatt ttcttcttga atccagttaa tacaagcttc cagccacatc 360
ggaggt 366

```

```

<210> 543
<211> 217
<212> DNA
<213> Homo sapiens

```

```

<400> 543
ggaatcgata agctcgatat cgaattcctg cagcccgggg gatccactag ttcgagagcg 60
gccgcccggc caggtaagac attggaacac tatacctatt attcggcgca tgagctggag 120
tcttaggcac agctctaagc ctcttattc gagccgagct gggccagcga ggcaaccttc 180
taggtaacga ccacatctac aacggtatcg tcacagc 217

```

```

<210> 544
<211> 373
<212> DNA
<213> Homo sapiens

```

```

<400> 544
accagaaagt gtgcacagga ttgggaatgt aaagatcatc aatgctaact cctgaccttg 60
agagctgtac aaacttattg gacacagaca agtggaacc cgaaaagaga aagcagtcaa 120
ttctatatTT ggaggaagat catgaaaggT ttacatagg aaggatttcc cctttggtca 180
atcagaaaag catgaattct atcaatagta gaaatctata aatcagtcta actatatact 240
agagaaaaca cacagaaaat gcaagtaagt ataaatatgt ccagtaattt cttaacatta 300
tctttttact aataaatata atgggagtaa aaacatcaat ctcacataag tgctaagagt 360
tttcaatatc aaa 373

```

```

<210> 545
<211> 217
<212> DNA
<213> Homo sapiens

```

```

<400> 545
acgataattg tggttgattg tctgttgctt tttggattct ccaagatcca ggaaatgctc 60
atgagcatga ttctttgaga cagtgggtat tttattctct tttggaacag ttaagtgttt 120
tctttctct tctgacctgt aagtctttat ttcttcttct ccctttgcag ttctccattc 180
ttcttgccca ctggctacac cagctgatag ctccgggt 217

```

```

<210> 546
<211> 258
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```


<222> (1)...(258)

<223> n = A,T,C or G

<400> 546

```

ggggttttct gggcagtggc tccattgctt cagtcttcat gattggtaag aattgaatag 60
gcccatttgt cagctttggc ttgtgtttcc tcggnggtgg tgctgatggg actggggggac 120
aggagccaag ggtccccacc atggggggccc tcgagccgnc tctctctcag gtagtgggctc 180
ggcgctcaga cctgaagctc atcgtcacat cagccacgat ggatgcgagg aagtttgctg 240
ccttttttgg gaatgtcc
258

```

<210> 547

<211> 242

<212> DNA

<213> Homo sapiens

<400> 547

```

agcacatcaa cttcagatct gtgacaccgg ccaggcagcc tgaatcaatt aatttgaaag 60
cctcgaagag catggacctt gtgccagatg aaagcaaggc tcaactcattg gctggacaaa 120
aatcggaatc tccaagcaaa gattttggtc caactctggg tttgaaaaag tccagctcct 180
tgagagtgct gcagactgca gtggccgagg tcaggaagaa tgacctttcc tttcacaggc 240
cc
242

```

<210> 548

<211> 202

<212> DNA

<213> Homo sapiens

<400> 548

```

gaaggtctag gtccatcaag gaaattcccc tcogttttcc tttgtcatgg ggtttatgtt 60
ttatttcaga ttttatttgt gtgacttaga aattccagga acacaattag gatattttca 120
tacacatagg gtatcttggt cactgctgtg ctactttaca tgagtaggat ggaagtgtat 180
attttatatg aaataccact gt
202

```

<210> 549

<211> 309

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(309)

<223> n = A,T,C or G

<400> 549

```

gcgcattctat agggcgagtg gcggccgagg tacccttgat taggaatcag gcagcctcgg 60
ccaaagcagc aggggcagca gaccttatgg acatatattgg tccattttgg attgagttga 120
ccataagggt cttctgattt ggggttaaac acaccaataa ttttcctctt aggatccttc 180
acaaagtaac ttccacttga accttgagag attctntctg gaaaaattcc aaacttctat 240
ggcttgctct gctctcagca taatatcagc aaattctggg tcatccaaga atgcattcat 300
ctctgaagt
309

```

<210> 550

<211> 326

<212> DNA

<213> Homo sapiens

<400> 550

```

acatgtaaaa tcttactgca gttttatgtt tttaatagtc aaaatagaat gtataatctt 60
gatgatgttt ataaatcatc aaatgccctt tgggggtgtaa aaatgggttc ttgagcagca 120
gtgtctaagt attccatcac aaatttggtt taaagccaaa ctcccattga aagtgtcact 180
ttatgcttaa taggaaatcg ttatgattaa agcatcaagg aagcaaatat aaagtttaat 240

```

gaaaatccaa ggggaagttc taaattgcaa aacttggcac ttatctacag tattttgaaa 300
aataacacca ccggtattca aaccta 326

<210> 551
<211> 461
<212> DNA
<213> Homo sapiens

<400> 551
gtacccagc agtgtcaagg caggaggctt cactcaagcc ctgttccttc caggcctcac 60
agcagtggga atttacctca gctgatagag ggagatcgta caacacattt ctcaatctag 120
attcatgtct tgagacccca cccaagatc aaaagctcct tagtatctta ctctgcccac 180
cttattgtaa ggcccctctc tcatggacct aatccctcag gatcctaata aaatgaacaa 240
cattgggggg aaaaaaggta aacctttatt tgtaaaaaga gtttaaataa caatttaaaa 300
ccccatttca ctttcaaaac ataaacatga aagcaaggaa aagataatct atcacgcac 360
tgccctctgc tgtggtttag cattttaaag ctgcatttcc cagcacaaga gaacagtgat 420
gggccctact cctaggaacc cacagggcac tgtcttgaga c 461

<210> 552
<211> 533
<212> DNA
<213> Homo sapiens

<400> 552
atagactcct ccttagaggt gtctagcagt aggaaatatg ataagcaaat ggccgtgcct 60
tccagaaata caagcaagca aatgaatctg aatcctatgg attcacctca ttcccctata 120
tcccctctgc caccaacact cagccctcag ccacgaggtc aggaaacaga gagtttggac 180
ccaccatcgg tccctgtgaa tccagccctt tatggaaatg gactagaact ccagcagttg 240
tctactctgg atgacagaac tgtcctcgta ggccaaagac tgccctctcat ggagaggtc 300
agcgagacag ccttatattg tgggattagg ccctcgaacc cggagtcac 360
tggcatagtt attgtctccc acccagtgat gatgctgagt tcaggcctac agagctocaa 420
ggtgagagat gtgatgccaa aatggaggta aactcagaga gcaactgcatt gcaaagactc 480
ttagcacaac ctaacaaacg gtttaaaatc tggcatgaca aacagcccca gtt 533

<210> 553
<211> 228
<212> DNA
<213> Homo sapiens

<400> 553
acttcagatt taacaaaata aaaagtttgg tcttttctta tgctgtagga gctgaggcaa 60
cttgcatatt tgataactca taatacctga tttttcagct cataggggga aggcaagata 120
ccagttaaca gtttagacca gtaaaacttag ttccgcagat ttcaaattct tattttttct 180
tctacatagt gtagtatata tactgttggc acttaacaaa gaacatgt 228

<210> 554
<211> 249
<212> DNA
<213> Homo sapiens

<400> 554
acttagacct ggtatggaga cccacgggg tgggaaaggg cttccctctg ccttgacaat 60
ttccttgaat atccagccca gtaagaatgt gttttacatc atgacttttag ataacacgtt 120
tataactgaa gcaaaagctc gaagaaacaa cacttaactg tactacagga gtgtacacc 180
catgcatttt taattccaat tttgtgtgtg tgtgtgtgtg tgtgtgtgtc tgtctgtgtg 240
tgtgtgtgtg 249

<210> 555
<211> 454
<212> DNA
<213> Homo sapiens

<400> 555

```

cacaggcccc cttcaatggc cgcattcagg atggctctat acacagcagt gctggtttat 60
gtagagttca gcagtcactt cagagatgta tcttgtcttt gtcaggccct tcatcttcat 120
ggccacactg ttttctgccg tgacctttgg tcccattgag gactaaggat cgggaccctt 180
tctttacccc ctaccattg tggtctccac cctgcctcgg actggtttac gtgtcctgg 240
tcacaccag gacttttctt tgcaagcgaa cctgtttgaa gccaagtct taactcctgg 300
tctcgtaagg ttccactgag acgagatgtc tgagaacaac caaagaaggc ctgctctttg 360
ctgcttttaa aaaatgacaa ttaaatgtgc agattcccca cgcaccgat gacctatatt 420
ttcagccgtg ggaggaatgg agtctttggt acct 454

```

<210> 556

<211> 229

<212> DNA

<213> Homo sapiens

<400> 556

```

tgactcttga cccatattat aaaatataat ccaagccaga ttagtcaaca tccataagat 60
gaatccaagc tgaactgggc ctagattatt gatttcagg tggatcacat ccctatttat 120
taataaactt aggaaagaag gccttacaga ccatcagtta gctggagcta atagaacct 180
cacttctaaa gttcggccta gaatcaatgt ggccttaaaa gctgaaaag 229

```

<210> 557

<211> 392

<212> DNA

<213> Homo sapiens

<400> 557

```

accacattcc tgctcagaaa ctgctcactt ccttaaattg tcttttttcc cccagcgtga 60
aatgtatcca tttataactg cctattgcct gttctattag catccaaaaa tgtggaaggc 120
ctcccaacca ccatttctgc tgtgtcctta ggatgtgcag taaaaaata agacctaaca 180
gtttatgtta tagaatggct ttatttactt tggtagctgt ttatagtttt taaataaaaag 240
actgaacatt ttcttgagtc cttcatttct gagtatgctt aagacatctt aaaaatatag 300
agagaattct aaattcagct gaaggcaagg tataacggtc acctacctat ttgattatat 360
gttgattgat aacatattaa atagagaaca aa 392

```

<210> 558

<211> 407

<212> DNA

<213> Homo sapiens

<400> 558

```

actaataaac tcaatgatct agcagaaatt tgctgaaaga gggcaaaaga ggacaaagat 60
gatcttaaaa aaatgaacta tttgagtgga atttgaggga aatgtaaaat gtcagccagg 120
aattctttta gaaacagttt ctgagcatag cagggtaggg gaagatgaat cctttgctaa 180
gacttttagaa agacctaggc agtgccttcc agaactttca gacagacaaa aggcactctc 240
cagatcttaa agaaatgtgt aacagaaact cttattgttc aaaaggccgg atctaagagg 300
caaggattta agatctaaaa ggtgctgtcc cataggaacc tcacagggga cccaagatga 360
gaagggtttt gtgtcaaaga gacttatggg tatgggtttc gtctaat 407

```

<210> 559

<211> 220

<212> DNA

<213> Homo sapiens

<400> 559

```

ccctgcaggc ctctgccctg aaggcctggg gcggaagaa ggagaacctg aaggctgcgc 60
aggaggagta tgtcaagcga gccctggcca acagccttgc ctgtcaagga aagtactaca 120
acgaggccac aggaggaaat tatgtcccca gagcgtgtgt ggtggacctg gaaccggcca 180
ccatggactc tgtccgttct ggcctcttgc gtcagatctt 220

```

<210> 560
 <211> 372
 <212> DNA
 <213> Homo sapiens

<400> 560
 acaagttgat ttttaaggaa atttgtgcaa acattaagaa acaccgcatt ggttctgggt 60
 gaaagtgcca gtctggaact ctcttgaaag accatacagt ctactgctaa accctgggac 120
 tgctcagact tgcactcaga ttatcgtttg cctgccctga ttgtagactc tgctaattca 180
 agtccctgtt atcttgcttg acatcgacaa ggatcaccgc accgttcctt cagtttccac 240
 agttccgtca gttccacgg agaatactga ggagaagaca gcattcctgt ctcacaagtc 300
 ttctcacaca gccactgact gtcctggtat cttttaggtc ctatggcagc catccagatg 360
 cccatgctta ca 372

<210> 561
 <211> 311
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(311)
 <223> n = A,T,C or G

<400> 561
 tggcggccgc ccgggcaggt acaatcactg agatctctct taactaaaac tgagaattgg 60
 ctacagaaaa taagttgtga catgaagata aaatacatat tggcaaaata taacacactg 120
 aatcccttgg ctacattaaa tccttaatat tgggtgaattc attttggctt tatattttta 180
 aaaaatattt atttttaaca tgaaacttat ttttttaaca aagtgtctat tactattccc 240
 gtatctaattg cagtaaagaa tacagntttt taaaaggaaa atagttgggc atctgtttga 300
 cagaaatgag t 311

<210> 562
 <211> 304
 <212> DNA
 <213> Homo sapiens

<400> 562
 actcatttct gtcaaacaga tgcccaacta ttttcctttt aaaaaactgt attcctttact 60
 gcaatagata gcggaatagt aatagacact ttgttaaaaa aataagtttc atgttttaaaa 120
 taaatatattt tttaaaatat aaagccaaaa tgaattcacc aatattaagg atttaattga 180
 gccaagggat tcagtgtgtt atattttgcc aatatgtatt ttatcttcat gtcacaactt 240
 attttctgta gccaatcttc agtttttagtt gaagagagat ctcaagtatt gtacctgccc 300
 gggc 304

<210> 563
 <211> 398
 <212> DNA
 <213> Homo sapiens

<400> 563
 atagactcct ccttagagggt gtctagcagt aggaaatatg ataagcaaat ggccgtgcct 60
 tccagaaata caagcaagca aatgaatctg aatcctatgg attcacctca ttcccctata 120
 tcccctctgc caccaacact cagccctcag ccacgaggtc aggaaacaga gagtttggac 180
 ccaccatcgg tccctgtgaa tccagccctt tatggaaatg gactagaact ccagcagttg 240
 tctactcttg atgacagAAC tgcctctgta ggccaaagac tgcctctcat ggcagaggtc 300
 agcgagacag ccttatattg tgggattagg ccctcgaacc cggagtcac agaaaagtgg 360
 tggcatagtt attgtctccc acccagtgat gatgctga 398

<210> 564
 <211> 402

<212> DNA

<213> Homo sapiens

<400> 564

```

acgacatggt tgtgaatttc ctagaccagc cgggtggtgtg gagagaaatc agcattatta 60
catcagcatt aaggaacgat tcacaggaca aacaaacca ttttttaaga agttaatttg 120
aaactcttcc tggtcgagtc cagtgtgaaa tgttactaaa ggtcacggaa caatgcttca 180
acacgttaga acgacagaa atgttgcttt tacttttgag gcgctttctt gaaaccgggtg 240
tgcaacatgg ggttggcctt ggtgaggcac tattagaggc tgaaactatt gaagaacagg 300
aatttccagt gaactgcttt agaaaattat ttgtttgtga tgtccttcct ctaataatta 360
acaacatga tgttcgatta cctgccatt tattgtataa gt 402

```

<210> 565

<211> 250

<212> DNA

<213> Homo sapiens

<400> 565

```

accaaagact ccattcctcc cacggctgaa aaaataggtc atcgggtgcg tggggaatct 60
gcacatttaa ttgtcatttt ttaaaagcag caaagagcag gccttctttg gttgttctca 120
gacatctcgt ctcaagtggaa ccttacgaga ccaggagtta agacttgggc ttcaaacagg 180
ttcgcttgca aagaaaagtc ctgggtgtga accaggacac gtaaaccagt ccgaggcagg 240
gtgggagcca 250

```

<210> 566

<211> 160

<212> DNA

<213> Homo sapiens

<400> 566

```

acacagaaaa gcggttacca gcacaggact ctgggttcct gtcctacctc ttgcacttgg 60
gcaaaggact taacctcctt atgcctctgt tgctttgtat aaaatagggg taattatggg 120
aataccacag tttgttttga tgattaagag ttgatacata 160

```

<210> 567

<211> 273

<212> DNA

<213> Homo sapiens

<400> 567

```

actgtcctga gtgggttggg aggtgggtag ccgctgatac agggacaggc agatgtgcag 60
acgcttacca ccctggtcca ccgatccac cccatgcttc cacctcccag agctcttgag 120
ataagacctt aagaaggatc cttgggcttg cattaacc acccttgcgt ccgtggagggt 180
ctaacaggac ccaatagttg ttactacaaa agtgcttttg caaatagggc aagttagaag 240
aaggaggtaa tatgaatatt cttttagaaa aac 273

```

<210> 568

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(415)

<223> n = A,T,C or G

<400> 568

```

acctttacat aactggcatg tttgattttt aacaaggccc tttggaggta accagagcaa 60
gtgccattag cctttctgta ggtgaataag aggaggcttg gagagggtgc cagagccaca 120
cagcctccta agaggccaca ctggcatgga atcaggctat cagccctgca cgtggcatgt 180
ggtctctcgg tatttccaat ggccagtgcc aggacatcag gtctgtgaga ttaaaatagt 240

```

```

agaaaaagat gagggaaaaat gtttcatagg gttcccaggc atcagcggtt agaactggaa 300
gacacttttc actgcatagt ttgtcagaaa atgcttaaat ttcattgggtc agaatagat 360
ctagcttaca agttatctga acttttaaaa atgnggtggt tttctttttt tgggtg 415

```

<210> 569

<211> 277

<212> DNA

<213> Homo sapiens

<400> 569

```

attccaagcc agagctcagg tcacaggcac aggggctggc ccttcttggtc cacagcctta 60
tgcagctgtg gagtctggaa gactgttgca ggactgctgg cctagtccca gaatgtcagc 120
ctcattttcg atttactggc tcttggtgct gtatgtcatg ctgaccttat tggttaaacac 180
aggtttggtt gctttttttc cactcttttt tgacatggga gaggcattat ttttaagctg 240
gttgaaagct ttaaccgata aagcattttt agagaaa 277

```

<210> 570

<211> 161

<212> DNA

<213> Homo sapiens

<400> 570

```

acacagaaaa gcgggttacca gcacaggact ctgggttcct gtcctacctc ttgcacttgg 60
gcgaaggact taaccttcct tatgcctctg ttgctttgta taaaataggg ataattatgg 120
taataccaca gtttggtttg atgattaaga gttgatacat a 161

```

<210> 571

<211> 243

<212> DNA

<213> Homo sapiens

<400> 571

```

gggcctgtga aaggaaaggt cattcttcct gacctgggcc actgcagtct gcagactctc 60
caaggagctg gactttttca aaccagagt tggaccaaaa tctttgcttg gagattccga 120
ttttgtcca gccaatgagt gaaccttgct tttcatctgg cacaaggctc atgctcttcg 180
aggctttcaa attaattgat tcaggctgcc tggccggtgt cacagatctg aagttgatgt 240
gct 243

```

<210> 572

<211> 162

<212> DNA

<213> Homo sapiens

<400> 572

```

cttttttttt tttttttttt ttttggtttg ggtttttttt tttttttttt ttttaccctt 60
ttatgtattt atttatcaaa acactcgcaa acctgacctt actcaccaac acacacacac 120
aaccaggaca catgtgccag gccttatgaa aggctatcaa gt 162

```

<210> 573

<211> 394

<212> DNA

<213> Homo sapiens

<400> 573

```

actttatgtt accaaccaaa tttggtgtgt gcactcatta agaatgcaac ttaaaaaatt 60
ttgggttaaca aaaagagtaa tttgattata caagatcttg tatactgaat aatttataat 120
aatctaccac tgtctaaaag tgtaagaatc aaaacagcca tctaatttag tttcagaatt 180
atagatgaat acagataatt ataggtgacc caattccaac taaaaaatcc agagttgaca 240
actccagata tgtagccatg cttgtgtctt tctagtcaca gctcaacctt cccttcagtt 300
tgaagcagtg tgggtgccatg gtgaagacta ctgatttttag agctttgaat ctcggttctt 360
attactatgt gacctgtgtg accttgggca aggt 394

```

<210> 574
 <211> 366
 <212> DNA
 <213> Homo sapiens

<400> 574
 actgtctgat gacgggtgag ggcagagttc ttagtgaagc ctctctcaca gtgagaacac 60
 ctgtaaggct tttcaccagt gtgggttttt cgggtggcac tgaagtggga gctattgttg 120
 aagattttcc cacacactgc acaactctgg tgactcatct tctcctggga tggggttttc 180
 tcctcactct cccctggaga atttctacat tgccttcttg atgttggtc actctccaag 240
 cctttttgta gctcagagtg ccaataaact cctctggact ttctctgtaa agccttggtt 300
 atttctactt cctctgaatc atcccatttt agatttttct tttttaaatc tcgttcttga 360
 actcaa 366

<210> 575
 <211> 407
 <212> DNA
 <213> Homo sapiens

<400> 575
 cgcgtccggg agaacggatc cgacgtatcc tgaagggaaa gtccattcag cagagagctc 60
 caccgtatta gctccattag cttggagcct ggctagcaac actcactgtc agttaggcag 120
 tcctgatgta tctgtacata gaccatttgc cttatattgg caaatgtaag ttgtttctat 180
 gaaacaaaca tatttagttc actattatat agtgggttat attaaaagaa aagaagaaaa 240
 atatctaatt tctcttgga gatttgcata tttcataccc aggtatctgg gatctagaca 300
 tctgaatttg atctcaatgg taacattgcc ttcaattaac agtagctttt gagtaggaaa 360
 ggactttgat ttgtggcaca aaacattatt aatatagcta ttggaca 407

<210> 576
 <211> 437
 <212> DNA
 <213> Homo sapiens

<400> 576
 cccacgcgtc cgacgactca ctatagggat ctagatcacg agcggccgct agactagtct 60
 agagaaaaaa cctgccacac ctgcccctga acctgaaaca taaaatgaat gcaattgttg 120
 ttgttaactt gtttattgca gcttataatg gttacaaata aagcaatagc atcacaaatt 180
 tcacaaataa agcatttttt tcactgcatt ctagtgtggg ttgttccaaa ctcatcaatg 240
 tatcttatca tgtctggatc cccgggtacc gagctcgaat taattcctct tccgcttctc 300
 cgctcactga ctgcctgcgc tcggtcgttc gggctgcggc gagcgggtatc aactcactca 360
 aaggcggtaa tacggttatc cacagaatca agggataacg caaggaaaga acatggtgag 420
 caaaaggcca gcaaaag 437

<210> 577
 <211> 540
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(540)
 <223> n = A,T,C or G

<400> 577
 actcataaga ggtccatctc taaattgccc tcctcttact tcttccccct gcctcatgtt 60
 ttttctcttt aatgactagc atcgaaactc tttaaatggg gcaggcctgt gttcttatct 120
 caggaatagt aagaaaaggg ggttggaac aggggaaatc cagaataaag acttgagaaa 180
 ggaacagagt ggggtgatggc agctatgaag aaaaaacaga tcagaagaag agtcctggca 240
 ccttaggaag agaaagtgtc acagacacga ggcctaggct agagagatgg tgtaggtggt 300
 agctgctgtg aagaagaaat gacaacaggc tggagctgtt ccctgaaacc tgtgggaagg 360

aagagagacc tgcacaggcc ggtacttagc ttgtggagaa ggtcctaact caacactgca 420
 actttaagct ggcttaactt gtccaagttc cagatgacca acaaagacag ctatagacac 480
 tctaactctg tgccaattac ccaaagcctt cnaggccctg ggacctattc catgatagtg 540

<210> 578
 <211> 135
 <212> DNA
 <213> Homo sapiens

<400> 578
 actagaccag tggagaatth gacaccttht cthtttgtaa aagthttatgg tattataaccg 60
 atagaccaaa acagcatgtg taagaggcag tatctgcact aattctcaac atgctaaaca 120
 ttaactacaa ttcac 135

<210> 579
 <211> 820
 <212> DNA
 <213> Homo sapiens

<400> 579
 gcgtccgggg acagattgag ctgagacctg gttatgagca agccaatctt ttgaatctag 60
 agaatggaat tcttaggttt atatgtctgt taagaaatac tataaatatg actcttatga 120
 gaagactttg ttgctctgta gtgtttctga atactgtatt tgttggttg atcaaggcta 180
 tttttcaaaa agctctctgc ttctgtttg tttgtttgtt tgtttttgag acagagtctt 240
 gctctgtcgc cggggctgga gtgcaatggc gtgaactcag ctactgcaa cctctgcctc 300
 cctggttcaa gctattctcc tgcctcagcc tcctgagtag ctgggattac agggccacgc 360
 ctgggctaatt tttgtatttt tagtagagat ggggtttcac catgttggtc aggtctggtc 420
 caaactcctg acctgtgat ctgccacct cagcctccca aagtgtggg aagacaggcg 480
 ttagccaccg tgcccggcct ctgtttcctg ttattagtga ttttctgccc caagattgca 540
 acaacaaata tgtagaacta cagactgttt agaatgctga gactgttcta agaaactttc 600
 aaaaacagta gcacttcaag gaatgggtcac tttctatgaa agaaactggg ttgatagcca 660
 taatcttatt ttagctgct tttagcaaaa gtcttttctt gaaaccacca cctatactct 720
 ttaacaaat aaaaactaaa atctcttgct aatgtttcag gaagatttat tttttctatt 780
 ttgctattgt ggcgaaaatt attttcagtt ataggatact 820

<210> 580
 <211> 379
 <212> DNA
 <213> Homo sapiens

<400> 580
 acaatgtaga actctgtcca acactaattt attttgtctt gagttttact acaagatgag 60
 actatggatc ccgcatgcct gaattcacta aagccaaggg tcgagcggcc gcccgggcag 120
 gtacatgcat ttgaatgaca ttttaggaac agtaaataat cttttaata ctgcaagtta 180
 aaaatgtttt ctgacaaaac tccctaaata cataggtcta gtaagggttt ccaacaggat 240
 gatgggtgag gaatccagca aggagttgca tttagagagt tctttgagga aaagaaatcc 300
 accaaaaacg tgttttagtc aaagtaacct ggacaaagtt acgtagtatt attccagctt 360
 ttttctgaa cttaaaaat 379

<210> 581
 <211> 160
 <212> DNA
 <213> Homo sapiens

<400> 581
 acacagaaaa gcgggtacca gcacgggact ctgggttcct gtcctacctc ttgcacttgg 60
 gcaaaggact taacctcctt atgcctctgt tgctttgtat aaaataggga taattatggg 120
 aataccacag tttgttttga tgattaagag ttgatacata 160

<210> 582

<211> 160

<212> DNA

<213> Homo sapiens

<400> 582

tatgtatcaa	ctcttaatca	tcaaaacaaa	ctgtggtatt	accataatta	tccctatatt	60
atacaaagca	acagaggcat	aaggagggtta	agtcctttgc	ccaagtgcaa	gaggtaggac	120
aggaacccag	agtcccgtgc	tggtaacgcg	ttttctgtgt			160

<210> 583

<211> 495

<212> DNA

<213> Homo sapiens

<400> 583

acagaattca	gggccttttt	gctgccgttg	tcaatgaact	ctcggagttg	gccctgcctt	60
attaaatttt	aatcaattat	ctttctaagc	atcaagatgg	ccatgtaaac	actgttttta	120
agaccacgtc	taccggctgg	gcacgggtga	tcatgcctgt	aatcccagca	ctttggggagg	180
ccaaggcagg	aggattgctt	gagcccagga	gttcaagacc	agcctgagca	acatggcaag	240
accctgtctc	aaaaaaaaaa	aaaaagtata	ctacctgatt	tctaaaatta	ccaaagtgcc	300
cccttttccc	ccattatttt	aaaaaatatt	gttctagctc	tgcgcttaag	gtctggacct	360
ttctttttta	aaatgtttata	tttttataac	atcttattat	taccaccacc	aaaaaaggac	420
tcagtttctc	ccactttaca	ctatatctct	gtccccaaaa	taaataactg	aagcattttat	480
ccgcaatttt	tttaa					495

<210> 584

<211> 413

<212> DNA

<213> Homo sapiens

<400> 584

actctatgtt	gttggttttat	tgtgtgaaat	tttattttac	taataatatt	catgatatat	60
tttaactaat	tgtcataaat	taagagtatt	gtatccaaag	cagccagaat	attagatgtg	120
gtcataaaat	aagttttcaa	attttgtctg	aataactagg	attagaaaga	agtaactaaa	180
aatgggtttg	gacattcaaa	tttggataga	aataaaattt	attttcataa	gtcaatccta	240
acacttgagc	ttcatgtaaa	ttttccaaag	tcattcatat	tttgatcatt	actgtcggac	300
ccacaaatat	ttggaaattt	tttttaaatt	aaaaatgttc	ccacttaatt	gctttgagct	360
cgctatgagt	tcctggaata	ttttgtccaa	gcaaattctat	aattacaaac	act	413

<210> 585

<211> 272

<212> DNA

<213> Homo sapiens

<400> 585

acacacgata	taccaggccc	tgaatcactt	acggatgtta	tctataaaat	tcaaacgttc	60
caacaagagg	ggtattattt	tcccattttt	ctgatgaaga	aactgaggct	ttggagtatt	120
aggtgtaact	ttcccaagct	cttacagtta	ataagtatta	gagctggcct	tcaaaccag	180
gtgtctactc	caaaagactg	tgaaaggatg	aagatgatgg	tgatcgtaac	aatgggtgga	240
acaataaaaa	caatgggatg	tctttttatt	tc			272

<210> 586

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(423)

<223> n = A,T,C or G

<400> 586

```

agactccatt cctcccacgg ctgaaaaaat aggtcatcgg gtgctggtgg aatctgcaca 60
tttaattgtc attttttaaa agcagcaaaag agcaggcctt gtttggttgt tctcagacat 120
ctcgtctcag tggaaacctta cgagaccagg agttaagact tgggcttcaa acagggttcgc 180
ttgcaaagaa aagtcctggg tgtgaaccag gacacgtaaa ccagtccgag gcaggggggg 240
agccacaatg ggtagggggg aaagaaaggg tccngatcct tagtcctcaa tgggaccaa 300
ggtcacggca gaaaacagggt gggccatgaa gatgaagggc ctgacaaaga caagatacat 360
ctctgaagtg actgctgaac tctacataaa ccagcactgc tgtgtataga gccatcctga 420
atg 423

```

<210> 587

<211> 336

<212> DNA

<213> Homo sapiens

<400> 587

```

actgtggctg caacatatgc cttgccatca gatacaatag ttaggcttcc tatccacatc 60
ctatgcagta aaaaagcttt aaatctgaat ggaacatctg cagaattagc ttacagacaa 120
ctcagaagca ggaacacttt ggtccgtgtt caaataaaat gaagggtgag attctttatg 180
cagcagcagg agaagtagga ttctgaatct ctctttggag tcaagttggt ctttgaaaga 240
aaaccaattt gcttttaaga gattctagtc tagcaggata ccagatgatg gcaagtgtgc 300
ttaaaccaag ggtgctgtat agactaaggg actggt 336

```

<210> 588

<211> 526

<212> DNA

<213> Homo sapiens

<400> 588

```

gcactgtgta ttgatggtcc aaaaagggtt tgctccaata gcaaatcgag cggccgcccg 60
ggcagggtacc tgtgttatgc ctgtgctcca gcagtcatt gcctctggca tgaactcttc 120
taggtttgga aattccactt taaatatgag gaaatgtctg ctcatgtaga tgatatgact 180
tgccctagaa cacaaatcta gaaaatgcag caaccagaat gttacccatg tttgttgaa 240
accgaaatct agcctcttcc catgactggc cccctctctc tgagcagtaa tagtgagcat 300
tgctggccac cagggccacc catccttact agggctcctg gtocctactg cacaaaattc 360
tgttatttgg gattcagacc tctggaaaaa caaaaatgga gtttctagag ttcaattgtg 420
ccaaaagaca attgtcatca catctcctct tggagaaggg aacatgtcag ggttggttgt 480
gttcaggcag caggagtcc cctaactcgt gggaaaagca actgca 526

```

<210> 589

<211> 173

<212> DNA

<213> Homo sapiens

<400> 589

```

cgatgcctt ttcgacacct ctgcctgagc ctgctgctag ccctgcctgg ttccaccaga 60
ctggcgtgtc attggacaga taaaccagtg ttagcttgca aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggct ttt 173

```

<210> 590

<211> 509

<212> DNA

<213> Homo sapiens

<400> 590

```

acttagccaa tggagaagac acttcagtgg ggcattccac aaataaatgc ttttaagactc 60
aggctaaatc ttgacaaaaa attaataaac tgacaaaaaa gatactgtct cagcattaac 120
aggaattttt tttagaagtc acaggaacta tatctattgc aattagagat actgaataag 180
gcttaaactt aataaataac aagtgaggaa gatcaaatcc caagtctggc cacttagcaa 240
agcctcattg ttgaagggtt tocaagagtg tttccccttg tgccatgggg aaaataatcc 300
ccgttcaata gctactacct atacctaccc agagggtgcat gggaataatc ctattccgac 360

```

```

agaaggtagg ggagcaacta ggtaaaggcc ttagtgtctg aaaggatagt gcttcacacc 420
agattctctc tgaaaccctt agtaatgact atgataaatc atgaggcaat gacacacctt 480
ttactgttct caaataacaa gatgtcatc                               509

```

```

<210> 591
<211> 606
<212> DNA
<213> Homo sapiens

```

```

<400> 591
actcatctga tgacaaaatc tttcaaacag aaacaaaaca atatatggac cagcccaaag 60
tttatcagtc ggaagccaag acgatgttac agaatgtatc tgctgaagta tgtgttccag 120
taactctggt tccagttcag atgcctgaca ctccgagtga cctagtgcgt catactacca 180
cactcccacc atcttctcat gagattctgt caccacagcc acagtcaact gattatccac 240
gagcagcgga tttagctttt ctggaaaaat atactcttac tcctcaacct gcaaatatag 300
ttcaccacag tgcacctgaa caaatgctag atcctagaga acaatcttat cttggaacat 360
tactgggcct tgatagcact actgggtgttc aaaatatttc tacgaatgag catcattcat 420
gagtaaatct aaacattcca cagatttttg gatgggtata tgctaattgt agagatgata 480
gctttttaat ttgtggggct gctattttct tgttttctct agtttctcaa gtcctcagaa 540
cagtttcaaa tcaagaaaac tatgtgtctc tgtttactga acatgaatat ttggacaaaa 600
tttctg                               606

```

```

<210> 592
<211> 397
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(397)
<223> n = A,T,C or G

```

```

<400> 592
caacctcatt aacctcacta aagaaaaaaa ottataccga acccccctct aatcaactta 60
tcataacttt tatcaattcc tcacccaat cnnnnnnnnn nnnnnnnnnn nnnnnnnaaa 120
caagtactca ttaacatacc ttaaaatttt ctctataata ataaaactta aaaactctat 180
agaatttttt ttccccattg atgtttagna aagtttgaga cttaaacagn aaattccata 240
aaatatctgc ttcatatcac ctattttaca tttccttttt gattcatgct ttcttgtaag 300
gtttaaattc attaacgtta atagttaatt ataacttttt ttttaactta aaaggattca 360
cttttaatac ccaactaaat taaatcatgc tatttaa                               397

```

```

<210> 593
<211> 133
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(133)
<223> n = A,T,C or G

```

```

<400> 593
gcggtggcg gccgaggtac aagctttttt tttttttttt tttttttttt ttgggagagc 60
aggctttatt tgcattcccc aggacagatc tggggaggga gtcgggggat ttggggttnt 120
tttaccancc tcc                               133

```

```

<210> 594
<211> 297
<212> DNA
<213> Homo sapiens

```

<400> 594

```

gcccttacat accaaagaaa taattatgct ctgaacacaa cagctaccta cgcggagccc 60
tacaggccta tacaataaccg agtgcaagag tgcaattata acaggcttca gcatgcagtg 120
ccggctgatg atggcaccac aagatcccca tcaatagaca gcattcagaa ggaccccagg 180
gagtttgctt ggcgtgatcc tgagttgcct gaggtcattc acatgcttca gcaccagttc 240
ccatctgttc aggcaaatgc aacggcctac ctgcagcacc tgtgctttgg tgacaac 297

```

<210> 595

<211> 423

<212> DNA

<213> Homo sapiens

<400> 595

```

actggctggt gaccacaaaa cacctgaccg caaatatctt ttcttgtatt cccatatttc 60
tagacaatga tttttgtaag acaataaatt tattcattat agatatttgc gcctgctctg 120
tttacttgaa gaaaaaagca cccgtggaga ataaagagac ctcaataaac aagaataatc 180
atgtgaacgt gaaaaaaaaa aaaaaaaaaa aaaaagggct tggccaagggt ttttttttgg 240
gttttaaaaa gcctttttaa attaaaaagg gtataagggg tttttccac ccaaaccggg 300
caacaaaaat tgggttaaaa attggggggg gggctttccc ctaaaagaaa aaaaaaacg 360
gccttttatt ggccttttaa aagggggcgg gggggggtaa ttttcccgcc ctttttgggc 420
ccc 423

```

<210> 596

<211> 572

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(572)

<223> n = A,T,C or G

<400> 596

```

gagaaagtga tatacatact acataattgt tctgttggtt aatatgccca aaataatagt 60
tactatcatt acatcttaca gaaacaaaaa ctttaagctt attacttttc agaaggaaaa 120
aagtatccta taactgaaaa taattttcgc cacaatagca aaatagaaaa aataaatctt 180
cctgaaacat tagcaagaga ttttagtttt tatttgttta aagagtatag gtggtggttt 240
caagaaaaga cttttgctaa aagcagctag caataagatt atggctatca aaccagtttc 300
tttcatagaa agtgaccatt ccttgaagtg ctactgtttt tgaaagtttc ttagaacagt 360
ctcagcattc taaacagtct gtagttctac atatttggtt ttgcaatctt gtgcaggaaa 420
atcactaata acaggaaaca gagggccggc acggtggcta acgcctgtct tcccagcact 480
ttgggaggct gaggtgggca gatcacaagg tcaggagttt gagaccagcc tganaacagg 540
gtgaaacccc atctctacta aaaatacaaa aa 572

```

<210> 597

<211> 594

<212> DNA

<213> Homo sapiens

<400> 597

```

acttttgcaa aaagtcgact gtgactgtgt agcattatgt tctgtagaat ttttttcaag 60
tagcataatt tatttcattg gtgtgaaaac agccaaagggt tccaatatcc tcacaaatca 120
tttatgccaa acatctgagg caaaatttag ccggtgttat ttactagatt cttccctttg 180
aactcacaga ctcaagagac agaccaagag ttcttatata ctaccacag cggaccaatc 240
caagtggcat ttttaggaaa gggtgcagca tttaatgccca tgtggtatgt ctgttcgtca 300
agtgggtggc aagggaatat ccaagctggc attttggata tgatgggcct tttactttcc 360
tgagtgcacat gccacatgtc aagaaatact gctccccacc cccccactcc catcacattt 420
acgtgaacaa ttttcattta gttattttccc gttccatatg gtgttaaaac agtcgtatta 480
aataaagatt atttctaggt ttcagtggta atttaaatga gaggatatgt aataattgct 540
tattagatac ttatccaaat gaaatataac agagtgttaca gtacctgcc 594

```

<210> 598
 <211> 419
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(419)
 <223> n = A,T,C or G

<400> 598
 acagactctc tcccatgctg gattaaactt cttaaatact tggaaacatct gggccaggcc 60
 ttcagtgtcc tccttggcag ggatggcaaa gtagactgct cgggcaagat gaccctccag 120
 ctgcacccga ggtccatcca ccaggaaggt atataagacc ttacccttg ggttataggt 180
 ccggtggata aataagatct cagggaaatg gtcaaagaca ctttgcataa agcagctctg 240
 gtagttgaag gtatctaact gggcagtctt gttaacctgg tgcagcagca taggtgggct 300
 tgagtcttta atcaggagcc cattcagcat tggcagggcc atgggagaga tgagagctgt 360
 ccaaatgcca aggtcaaaat actttctttg cagggcaact gaccacgng ctttgagtc 419

<210> 599
 <211> 192
 <212> DNA
 <213> Homo sapiens

<400> 599
 acattttctc tgctgcaacc caggatttgg gcttatgac aggaggaatg gtgattccat 60
 attcccagcc tttctcatcc accactcgat ttatgtcata agaccatgca tcatcttccc 120
 attccaacc tggaggacaa gtcaactcgc tgggtgatgc tgctttatcg ccgttcgcat 180
 ccgtgtaggt gt 192

<210> 600
 <211> 299
 <212> DNA
 <213> Homo sapiens

<400> 600
 acaaaaagcg ttaaccctaa attaacccaa actggtaaact tggttaagtgg ttcttcaatc 60
 aaaattttta aagaccatca aagccacctt taggaaaagg agaagacaag tcacagactg 120
 tagaagcggt tgcagtcaca caaaagggtc ctcaaaccct ttaaggaaaa tgtgtattgt 180
 gaaaaactat gcatagatgt caaaaattgt gcaaaaataa actcatacta atttgttata 240
 acatgtctga acaggatctg gtgtgaggca ctaacaagga taagacatca gtttgggcc 299

<210> 601
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 601
 attaaccttc actaaaggga acaaaagctg ggtaccgggc cccccctcga ggtcgacggt 60
 atcgataagc ttgatatcga attcctgcag cccgggggat ccactagttc tagagcggcc 120
 gccaccgtgg aggagctcca attcgcccta tagtgagtcg tattacgcgc gctcactggc 180
 cgctgtttta caaacgtgtg actgggaaaa ccctggcggt acccaactta atcgcccttc 240
 agcacattcc cctttcgcca gctggcgtaa tagcgaagag gcccgaccg atcgcccttc 300
 ccaacagttg cgcagcctga atggcggaat ggacgcgccc tgtagcggcg cattaagcgc 360
 ggtgggtgtg gtggttacgc gcagcgtgac cgctacactt gccagcggcc tagcggccc 420
 tcct 424

<210> 602
 <211> 217
 <212> DNA
 <213> Homo sapiens

<400> 602

```

gcttccagtc gcccccgggg tagcggtctt cgttctgata gacttcatca gtgaactccg 60
tgtgacctgc atctgcctca gtcagcaagc ttctttcagg atcaactatc cactctcctt 120
cccattccca gccttttgga ggcagaaaaa attccctctt gagttttatt tttcccgatga 180
catcagaaaa cttatgacgt cctactaatc cagaagt 217

```

<210> 603

<211> 217

<212> DNA

<213> Homo sapiens

<400> 603

```

gcttccagtc gcccccgggg tagcggtctt cgttctgata gacttcatca gtgaactccg 60
tgtgacctgc atctgcctca gtcagcaagc ttctttcagg atcaactatc cactctcctt 120
cccattccca gccttttgga ggcagaaaaa attccctctt gagttttatt tttcccgatga 180
catcagaaaa cttatgacgt cctactaatc cagaagt 217

```

<210> 604

<211> 126

<212> DNA

<213> Homo sapiens

<400> 604

```

actcgggcct ctgccattcc agcctcgggc cctgagatcc ctgaaccccc gacctctgtc 60
tcctgggccc cagctacctc agattctagc cctgggaccc ctgaactcct agatgctatc 120
tcttg 126

```

<210> 605

<211> 346

<212> DNA

<213> Homo sapiens

<400> 605

```

cgacgcgcgt ctgtggagaa gcggcttggt cgggggtggt ctctggtgggt cctgcctggt 60
tagtcgcttt cagggttctt gagccccctt acgaccgtca ccatggaagt gtcaccattg 120
cagcctgtaa atgaaaatat gcaagtcaac aaaataaaga aaaatgaaga tgctaagaaa 180
agactgtctg ttgaaagaat ctatcaaaag aaaacacaat tggaacatat ttgtctccgc 240
ccagacacct acattgggtc tgtggaatta gtgaccacgc aaatgtgggt ttacgatgaa 300
gatgttgcca ttaactatag ggaagtcact tttgttcctg gtttgt 346

```

<210> 606

<211> 431

<212> DNA

<213> Homo sapiens

<400> 606

```

tttcttggag cttccacaaa cttaaaacca tgaaacatct attattgcta ctattgtgtg 60
tttttctagt taagtcccaa ggtgtcaacg acaatgagga gggtttcttc agtgcccgtg 120
gtcatcgacc ccttgacaag aagagagaag aggctcccag cctgaggcct gccccaccgc 180
ccatcagtgg aggtggctat cgggctcgtc cagccaaagc agctgccact caaaagaaag 240
tagaaagaaa agcccctgat gctggaggct gtcttcacgc tgaccacagc ctgggggtgt 300
tgtgtcctac aggatgtcag ttgcaagagg ctttgctaca acaggaaagg ccaatcagaa 360
atagtgttga tgagttaa atacaatgtgg aagctgtttc ccagacctcc tcttcttctc 420
ttcagtacct c 431

```

<210> 607

<211> 367

<212> DNA

<213> Homo sapiens

<400> 607

```

tgaccttttt gtgttttgaa cacttggttc catgaaaagt atgctttgtg ttttaactgt 60
taaaaataatt taaaaattaa ttattttaca taattaaaga agttaaaaac tattaacatt 120
aaataatttc acaatttcaa catgtcaaac ctatgaaggg agataggaaa caatgagaaa 180
cttacttttg ctcctttata cagaattatt aactatattt tactaactaa aaaactctag 240
tattctttac ctaaaagtaa ttggctggta agaggagag atgcaaaatt ctccagctct 300
gaacttggag ctacttcaca ctctactctt aatggaaact tgaactaatg atagatagta 360
ttttttt 367

```

<210> 608

<211> 267

<212> DNA

<213> Homo sapiens

<400> 608

```

actatcttac ctatcgaagg cttgagtgc ttgcccaaaa taagttttac gatagaacaa 60
gtggtaggac ttactgtttt gagaatctgg tgctctctgt tgagagagat ctgggagtta 120
aaatcattgt cttaaaagca gagcctgaga caggcatgaa gtgttaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
ccttgccgc caccggggg gagctcc 267

```

<210> 609

<211> 554

<212> DNA

<213> Homo sapiens

<400> 609

```

acttttaaca agtgggtgaa ttatttgata attttgagga agattattct tttaaattca 60
aactagtatg tcaatgccta ccattactct gattatatta aaacagaaaa aggaaataac 120
aacttcgtat accagccact ggtgagagtt aaagacaaga gctgcccccc ccccccaaa 180
tgtcaaaggc aaatgctaaa ttgatactgg agctcgtggt gactttctac ctactaaca 240
acataaggga tctccatatt atttcaccac tattctagct ttgctgatat attgccaaat 300
gattagacta cagaatagtt caaccagaga atttactcat ttattgatta aacatccaaa 360
tactattgta acatactatg ttaaaattca tcaattcaag tgcccacaca ccactgaatt 420
atcagacca agcaatatat tagacatatg gcaaaattca acaaatatat tttgatataa 480
ataaataaac gttcacgact ttacttaaaa aatcaatgtt gcggctgggc acggtagctc 540
gcgtctgtaa tccc 554

```

<210> 610

<211> 510

<212> DNA

<213> Homo sapiens

<400> 610

```

actaaaaaaaa aaaaaatcca taccaaatat ttttacaat taagattgat gtaggtttta 60
aaaaaggcat ttgtatgttg ttagcttaca tatggggcta ggtaatttca ttgcttaaaa 120
agatgcgcct aggcctccctc ttggtggctg gatttctttt tcttcgcccg tgggtggccat 180
ggttcttaat agggccaccg gaatcatggt ttctttcttt tttttttttt tgagatggag 240
tctcgccctg tgaccacaggc tggagtgcag tggcacgac tcggctcact gcaacctctg 300
cctcctgggt tcacgccatt ctcctgtctc agcctcctga gtagctggga ctacaggtga 360
ataccaccac gcccggtgta tttttgtatt ttttagtagat ggggggtttc acataagtgg 420
tcaggctggt ctcgaactcc tgacctaggg tgatccacct gccttggcct cccaaagtgc 480
taggatacac ggtgtgagcc accacaccgc 510

```

<210> 611

<211> 126

<212> DNA

<213> Homo sapiens

<400> 611

```

acatttggat aggggtgggag gccacaaact tggtccata gacttggccg tctgtccatc 60

```

tcacttggac cacttcccct tcagcaggag gaccaaactg gagacagtcc tggctcacta 120
tgtcct 126

<210> 612
<211> 335
<212> DNA
<213> Homo sapiens

<400> 612
accttcggaa ctgactagta agtatatcca aagggtttaga aagggtctggg ttaagagcta 60
caagaagcat taaccgcaac ggccacaact aatttgtatc cattcttagt aacttttagg 120
aaccagactg aatgcttctc ccaccctttt gactttcctt tattagttcg caacacaaga 180
acatacaaaa gaccgtagcg acaaccattt ctgacgcctt caacttttaa atccaaatta 240
cgtgaacca caaagcatca gtggtgtctc cccgaggaat ccaagacccc ccggccggtt 300
gccaagccgc cggaatttca gcaggagagg aaggc 335

<210> 613
<211> 256
<212> DNA
<213> Homo sapiens

<400> 613
actgaataat tcagaaattg ttctcatggt atcttctttg gatgctggca gtattatattt 60
attaaaacaa ttttaactct gatgtagaac aattcagctg taaaatgctg agaaaaatct 120
tttatattca ctctattcct cccgtgagat gtaagagtgt tcaactgttt tcaacgtcag 180
ttaaactac tctggcccat aagcataaat atgcaaggca atacagatca tgtgacagtt 240
tgcattcttg gcttgt 256

<210> 614
<211> 146
<212> DNA
<213> Homo sapiens

<400> 614
acacagaaaa gcggttacca gcacaggact ctggtgttct ctgtcctacc tcttgcaactt 60
gggcaaaagg cttaaccttc ttatgcctct gttgctttgt ataaaatagg gataattatg 120
gtaataccac agtttgtttt gatgat 146

<210> 615
<211> 164
<212> DNA
<213> Homo sapiens

<400> 615
accataatcc acaactcacc cagtcttttg cagttcctgt gatagcatca tgatgttgaa 60
acagtcocaa attccttctg gcttctgtca gtgccgtgta aagtgatgat gagagaaatt 120
tatttatctt gtatttgtga gcttgtttta tgtcgaaata tttta 164

<210> 616
<211> 474
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(474)
<223> n = A,T,C or G

<400> 616
tttttttttt tttttttttt ggggtttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt ttttttttgg ggggcccccc cccttaaaaa tttttttttt taaaaaaaaa 120


```

aaaaaggggg gggggggttaa aaaaaaaaaa aaacccccc cccctttttt aaaaaaacc 180
cccccttttt taaaaaaaaa aacccccccc cctataagaa aaaaaaaaaa aaacctttt 240
ttgggggggg gggggggaaa aaaaaaaaaa aaaaaccccc ttaaaaaaaaa acccccccca 300
aaaaaaaaagg tggaaaaaac ccccttataa aaaaaaaaaa aggggggggg ggaaaaaaa 360
aaaagggggg gggccaaaaa aaaaaaaggg gggggaaggg ggggaaaaaa aaaaaanacc 420
ccccccc cccccccttt ttgnnaaaaa aaacaccccc ccccgggggg gggg 474

```

<210> 617

<211> 220

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (220)

<223> n = A,T,C or G

<400> 617

```

acttctggat tagtaggacg tcataagttt tctgatgtca cgggaaaaat aaaactcaaa 60
gaggggaatt nttttctgcc tccaaaaggc tgggaatggg aaggagagtg gatagttgat 120
cctgaaagaa gcttgctgac tgaggcagat gcaggtcaca cggagttcac tgatgaagtc 180
tatcagaacg agagccgcta ccccgggggc gactggaagc 220

```

<210> 618

<211> 375

<212> DNA

<213> Homo sapiens

<400> 618

```

acctagatcc tcaatcttct catagcctca ttacccccca aaaaatctgt cattagagct 60
agggaatct ctccggacac aagggaatct gtggtaacaa agaatgtaga cccatgttgc 120
cagtcttgag tatctcaggt gaggtgccag tccacttctg aaacaatgct ttgcctctta 180
tgctgtgga gaaactattc cacttcttca tttttttcat ttagaatcat atcatttcag 240
tctttttctt cttacttcaa ttttggttct tgtagcatag tcttttctgg taactactgt 300
aaagttaatg ctgcaaaagc ctatttaatc attctaataa aaaccttaac agatccaaaa 360
cgattctggg atgta 375

```

<210> 619

<211> 275

<212> DNA

<213> Homo sapiens

<400> 619

```

accctccaat ggaaaaggat aactccgata tgaggagtcc cccttccttc tcctaaacag 60
tcttataaaa agcatttcca acttgtaaca gatgttgaa catgcccac tttgttggtg 120
tatcttactg gataaattct cacatttggc ttccaataaa cttttatcaa tttaaaaaaa 180
aaaaagaata aaaaaaaaaa aaataaaaaa aaaaaaata aaaaaaaaaa aaaaaggttt 240
gtccaaaaaa aaaaaaaaaa aagctttacc ctggg 275

```

<210> 620

<211> 373

<212> DNA

<213> Homo sapiens

<400> 620

```

acatcccaga atcgtttttg atctgttaag gtttttatta gaatgattaa ataggctttt 60
gcagcattaa ctttacagta gttaccagaa aagactatgc tacaagaacc aaaattgaag 120
taagaagaaa aagactgaaa tgatatgatt ctaaatgaaa aaaatgaaga agtggaatag 180
tttctccaca ggcataagag gcaaagcatt gtttcagaag tggactggca cctcacctga 240
gatactcaag actggcaaca tgggtctaca ttctttgtta ccacagattc ccttgtgtcc 300
ggagagattc cctagctcta atgacagatt ttttgggggg taatgaggct atgagaagat 360

```

tgaggatcta ggt

373

<210> 621

<211> 217

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(217)

<223> n = A,T,C or G

<400> 621

```
acttctggat tagtaggacg tcataagttt tctgatgtca cgggaaaaat aaaactcaag 60
agggaattnt ttctgcctcc aaaaggctgg gaatgggaag gagagtggat agttgatcct 120
gaaagaagct tgctgactga ggcagatgca ggtcacacgg agttcactga tgaagtctat 180
cagaacgaga gccgctaccc cgggggacac tggaagc 217
```

<210> 622

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(450)

<223> n = A,T,C or G

<400> 622

```
actacaaagc tcagtcccca gatgaggggg ccttggtcac cgcagccagg aactttggtt 60
ttgttttccg ctctcgaccc cccaaaacaa tcaccgtcca tgagatgggc acagccatca 120
cctaccagct gctggccatc ctggacttca acaacatccg caagcggatg tcggtcatag 180
tgcggaatcc agaggggaag atccgactct actgcaaagg ggctgacact atcctactgg 240
acagactgca ccactccact caagagctgc tcaacaccac catggaccac cttaatgagt 300
acaagcnntn nttntntntn nttttttttt tttntccct ttatttttga tactttaatt 360
tcagaacaaa atgaagaaaa taaaataaac cacaatacac aacatccaat cctgctgtca 420
agagtagaga ggggaatgggg cttgacaccc 450
```

<210> 623

<211> 358

<212> DNA

<213> Homo sapiens

<400> 623

```
gtcgaccac gcgtccgctt aaaaaaaaaa aaaaaaaaaa aatattctaa gcactagaac 60
tacataagaa tgcctaaag cactgtatct aagcacttga aaagaatggg acttttcggg 120
tttagggaga taactattag caaccacaca atatgttatc tttatggatg aataacttct 180
ggtaatgaca cagtgtctta cagctacatc atttataaaa tcatgtgtca gttttcacac 240
agcctgcaca tcgttctgac atgccctttt tttccctgga gatttatcct catgacatac 300
aaggggacaa aaatatttat tgggactgtc tttgaattta gtagaatcac tgtatcat 358
```

<210> 624

<211> 149

<212> DNA

<213> Homo sapiens

<400> 624

```
atcaaccgcc acccttactg cctagtcaca cacgtcaggg aggctgccct cagtggagtt 60
ggggttgaga cccaggggtg ggacttcaca gttttgccag caatctctac cttctgactt 120
ctgcctcgca gaagaggtaa gggagaggg 149
```

<210> 625
 <211> 535
 <212> DNA
 <213> Homo sapiens

<400> 625
 agtcaccacg cgtccgagct cgccgccaac catgaaccga tgcccccgcga ggtgccggag 60
 cccgctgggg caggcagcgc gatccctcta ccagctggtg actgggtcgc tgtcccaga 120
 cagcgtggac gatgaatttg aattgtccac cgtgtgtcac cggcctgagg gtctggagca 180
 gctgcaggag caaaccaaatt tcacgcgcaa ggagttgcag gtccgtgacc ggggcttcaa 240
 gaacgaatgt ccagcggaa ttgtcaatga ggagaacttc aagcagattt actcccagtt 300
 ctttctcaa ggagactcca gcacctatgc cacttttctc ttcaatgcct ttgacaccaa 360
 ccatgatggc tcggtcagtt ttgaggactt tgtggctggt ttgtccgtga ttcttcgggg 420
 aactgtagat gacaggctta attgggcctt caacctgtat gaccttaaca aggacggctg 480
 catcaccaag gaggaatgc ttgacatcat gaagtccatc tatgacatga tgggc 535

<210> 626
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 626
 ggcgtccgccc acgcgtccgg gggccagggc gcgtcggagc cgctgagaaa gcgcagagaa 60
 ggccggccccc gtctgaggtc tggcagtcag agacagccgg gcgcccacgg cccgagcgcc 120
 cacggcagca ccatgccgc actcctggag cgccccaagc ttccaacgc catggccagg 180
 gcgctgcacc ggcacattat gatggagcgg gagcgcaagc ggacgggtga gccggggcca 240
 tagcaggggg acgcacggcc cagaatggct cctgtacctc aaggctggcc tcaaccacc 300
 ggccaaccag cgcgcccgct gccgagcgca gaggaggaa ggaatagccc cgttgtggtg 360
 ggatttaagc gtcctgttcc acgctccaga acccttgaia tgggaaggac cttggagagc 420
 acct 424

<210> 627
 <211> 435
 <212> DNA
 <213> Homo sapiens

<400> 627
 actgacagca gcactttgag gcatacttaa totattcacg ggtgttgagg gagcactgtc 60
 tgatcgggg ctagaaatgc ctaagaatgc atccaccaga cagctgattc cacgcatggc 120
 acgaaaaaat atttgaggca gatgtttaag gcagggatac tgattcaatt cttgcggcat 180
 tccgtcaca ttcaagaact gttcctgaaa ttggggagta gggcttataa tagctgggtt 240
 actcaaacc acaggattac ttaacatgtg taaaagcgga aaccatgtct gtgcaacaca 300
 ctcatatcc atttctggag ggatcagact ggcattctca tcgggaactt taaatgcagg 360
 aaatgaagga ccatatgtaa agcgtagcaa tctggaagtg agtgcacaaa tgaccttgc 420
 ccactgctcc accac 435

<210> 628
 <211> 530
 <212> DNA
 <213> Homo sapiens

<400> 628
 tctctgtgtc gtgtcctggg ggaccagcag cactgtgacg aggctaaggc cgtggatatc 60
 cccacatgg acatcgaggc gctgaaaaaa ctcaacaaga ataaaaaact ggtcaagaag 120
 ctgggtgagt ccggcgcgtg tggttttgca tgtgagatgt gtggtggggg cggtagaaag 180
 gcttttctgc cattttctgat ttttaaatga tgaggggcct agaatagcaa aggatcggcg 240
 gtggttgctt agcttgccct agtgctgttt tagctttggg gtggtttgat gtttgcattg 300
 ctatgaggat tccagttgat gaggggaggcc aggcattgta agttgaccag ccaggtgctg 360
 gtgaactatg atttggaat ctttacgctg cgttgtttag gcagtggcat tagactgctt 420
 ttacaggtag gaagcagaca ttcccagttg tcacgtgtcc aggtccaca gctaagaaat 480
 aggcagaatt cgagcccagg cagtcttgac cagagcattc gttgtacagc 530

<210> 629
 <211> 323
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(323)
 <223> n = A,T,C or G

<400> 629
 actcctcang gtcttttcag agatgccctc gataaatttc aagacagctt tggcctgggc 60
 tagagtctta cagcagtcca ccaacacacc cacaggctgg gtgtcctgca agctctcctt 120
 caactccctc agctccagat cagaaggacc aagactctca tccggagtct ggggaggcag 180
 ggctcccatg gtggcaacgt gggaggagat gggcaggatg ttgagctggg catcaatgac 240
 gagacacttc ttacaagagg ccagagacag aataaacctt tcattaaatc ttcccaccac 300
 atcctgatgg gcctcagttc tgt 323

<210> 630
 <211> 286
 <212> DNA
 <213> Homo sapiens

<400> 630
 ccgaggtaca aattcccaag cctgtttatt aaccaatttt acccaagacc aggaactcct 60
 gctgcaaaaa tggaacaagt tccagcacaa gtgattgggt aaagacaaca agtgtttagta 120
 acagaagaat cttttgattc caagttttat gttgcacaca atcaattcta tgagcagggt 180
 ttagtgccaa agaaccctgc gttcatgggg aagatggttg aagtggacat ctatgaatca 240
 ggcaaacatt ttatgaaagg gcagccagta tctgatgcc aagtgt 286

<210> 631
 <211> 530
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(530)
 <223> n = A,T,C or G

<400> 631
 cgcggtggcg gccgaggtac cttaagacaa aagttatgaa tgacacaaga attcatggct 60
 aagcaaaaat aaaacctcca gtgtgaaaag agaggaagca gaagcaacaa ggtttcccat 120
 gaaggtttgt agtttaagac attcccggac tgagttcttg ccccttgaaa agaggcaaga 180
 agatggaaac tcattgtgca ccctatgtgc agcaggtttt ctggacacca cagcttcatg 240
 aaactctgtg tctgtgaaca tcccaagagg tgaaatcagg aatcataaat aagaccttgt 300
 gccttcaagg agatgattgt catttctcctca agtttttgag gcagaggctt tgaggattct 360
 gcactctctt ttctttaga catgcaatac nggaagtatg gattcaaaat tgctttctgt 420
 tccatagaaa ggaataggag ttatgttttag ggctcttttt catgttaaaa tccctatgtc 480
 ctctaagaa aaagcttagt tcaaattctc atgaaaacaa tatttatgct 530

<210> 632
 <211> 468
 <212> DNA
 <213> Homo sapiens

<400> 632
 acttattctt cagggttact gagtcggcac ctatgacagc taagagagct ttcttaaaga 60
 ctgcctcagt gtcttcttgg cttttggcac cttcactcca ctctgccag gaaatccaca 120
 atggcagaca aacctggggg ttcaggtgca caaaggcttc ttcaaaaagc atggctatgt 180

```

cagggtcttt tgactcgatc agcacctgca gcttcagctg ccacattgtc ccagagtctc 240
taaacaattc agttccagct actgccactt ccagagcttc cctcaggaag ttataacaca 300
gcaacgaaac actcaactgc ttgtattggc attctgacag aagcttcagt tcatgtgcct 360
tcctgaatac agtcatgggt ctttccaacc tcttccctct aaggaacca ctatttgact 420
tcttagtaaa tctttccaag caaaaagtga tgtaacactt tcacatgg 468

```

<210> 633

<211> 357

<212> DNA

<213> Homo sapiens

<400> 633

```

cgcacggtgg agccgccagt tgagaaggac tctgatccgg ctcagctttc caatcagctg 60
cggaaggagc cacgctttcg ggggttgcaa gatggcggcc accagtggaa ctgatgagcc 120
gggttccggg gagttggtgt ctgtggcaca tgcgctttct ctcacagcag agtcgtatgg 180
caacgatcct gacattgaga tggcttgggc catgagagca atgcagcatg ctgaagtcta 240
ttacaagctg atttcatcag ttgaccaca gttcctgaaa ctcaccaaag tagatgacca 300
aatttactct gagttccgga aaaattttga gacccttagg atagatgtgt tggaccc 357

```

<210> 634

<211> 324

<212> DNA

<213> Homo sapiens

<400> 634

```

acttttagtag atgagggcaa agctttcacc gtaatgaaaa ggcaaattggg aggtctctga 60
taagtgggaa tcatcatagc aaaaaaagag atacctacca gaaaatttgc attaatatct 120
ataacctcat ttgtaaaaaa aatcattaag ttataaaact attttaaaaa taaaacgaat 180
acatatgtaa tatgaatcat atgccaaatt atattctata gtcataagtg ctattaataa 240
atacatttga ttcattgtac aagagaaaga attgagacaa tttcacattt cagaattcct 300
gagtcctatc agagaaaaac aagt 324

```

<210> 635

<211> 520

<212> DNA

<213> Homo sapiens

<400> 635

```

cttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt ttttttttaa aggcgggggg tatccttttt 120
ttgcccgagg aaagaaaaaa atcccaaaaa attttccggg ggggttccaa aaaaaatta 180
aaaaaatttt ttttttttgg gggggggccc ccaggaaccc gggggaaaac cgggaatggc 240
ccctcccagg gaaccggggg ggaaccccaa ccaaattttt ccggggggac ccctttggga 300
aaaaaaggga aaaggggggc cccccggaaa aaaacccccc ccaaaccctg ggggccagg 360
cccccccggg gggccccccg gaaattccgg ccgggccccg gggggggccc cccttttccc 420
taaagggggg ctttttaaac cggggggaaa aaagggccaa accggttccc ggggaaaaat 480
tgtttcccc ccaaatccc ccccaaaaa caaccggaa 520

```

<210> 636

<211> 560

<212> DNA

<213> Homo sapiens

<400> 636

```

cgtgcgcggc atgggcagtc tggacgggca gaccgatgaa gtgcaacctt cacatgagtg 60
ggaatgttat cacctcaaac caccocatcc tgctgcggct gagtgcagac ccatcaatga 120
aaaaggagag cgagctgcct cgcagggtga actctgcctc ctctccaac cccctgccg 180
aagtggaccc tgacaccatc ctgaaggcac tcttcaagtc ctcagggggc tctgtgacca 240
cgcagcccac agaattcaaa atcaagcttt gagcagggga gtgaggcagc cagaagtggg 300
ggcagaggag ggtgggtctg tttcccaag gcaaagctta tgaccaatgg gccatcggac 360
tggagacccc tgattgtggg aagggttgcc agggataaag agcttcctca ctggatggga 420

```

```

cccgcccttc tgtgttggtg tctgccctgt gctcttctct ctacgttaac gtttccctgta 480
gtatgtttct tcatctcatc gccaaagtag gcttgtgttt ttcagtgtgt gcctccccga 540
gcctcagccc caagctgatt                                     560

```

```

<210> 637
<211> 516
<212> DNA
<213> Homo sapiens

```

```

<400> 637
acataaagtg ctagaaaatc atgttccttg tcttgagtaa gagttaatca gagtaaattgc 60
atttctggag ttgtttctgt gatgtaaatt atgatacatta ttttaagaagt caaatcctga 120
tcttgaagtg ctttttatac agctctctaa taattacaaa tatccgaaag tcatttcttg 180
gaacacaagt ggagtatgcc aaattttata tgaatttttc agattatcta agcttccagg 240
ttttataatt agaagataat gagagaatta atgggggtta tatttacatt atctctcaac 300
tatgtagccc atattactca ccctatgagt gaatctggaa ttgcttttca tgtgaaatca 360
ttgtggctca tgagtttaca atactgcaa ctgtgttatt ttatctaata cattgcttaa 420
tgagtgtgtt tttccatgaa tgaatatacc gtgggtcata tgtagcatg gcagcatttt 480
cagatagctt tttgtttgtt gggaagttgg ggtttt                                     516

```

```

<210> 638
<211> 376
<212> DNA
<213> Homo sapiens

```

```

<400> 638
actatgtgca aaaagcccag accaaagaac aggcagattt tgcagtagaa gcattggcaa 60
aagctaccta tgagcggctc tttcgtctgc togttcatcg catcaataaa gctctggata 120
ggaccaaacg tcaggagca tctttcattg gaatcctgga tattgctgga ttgaaattt 180
ttgagctgaa ctcttttgaa caactttgca tcaactacac caatgagaag ctgcagcagc 240
tgttcaacca caccatgttt atcctagaac aagaggaata ccagcgcgaa agcatcgagt 300
ggaaacttcat cgatttcggg ctggatctgc agccatgcat cgacctata gagagacctg 360
ggaacccttc tgggtg                                     376

```

```

<210> 639
<211> 440
<212> DNA
<213> Homo sapiens

```

```

<400> 639
gcagccggca gctttgcagc ggtgtgttct aggtcagtgg cttcaaagac tccagttgga 60
ttcattggac tgggcaacat ggggaatcca atggcaaaaa atctcatgaa acatggctat 120
ccacttatta tttatgatgt gttccctgat gcctgcaaag agtttcaaga tgcagggtga 180
caggtagtat cttccccagc agatgttgct gaaaaagctg acagaattat tacaatgctg 240
cccaccagta tcaatgcaat agaagcttat tccggagcaa atgggattct aaaaaaagtg 300
aagaagggct cattattaat agattccagc cctattgatc ctgcagtttc aaaagaattg 360
gccaaagaag ttgagaaaat gggagcagtt ttcattggatg cccctgtttc tgggtggtgta 420
ggagctgcac gatctgggaa                                     440

```

```

<210> 640
<211> 517
<212> DNA
<213> Homo sapiens

```

```

<400> 640
acagagtcta atccctttct atgtagccac cagcatgaca gcaccagca actttctgca 60
cagggtgctg tggttggtgc cttcgccaaa agtctatgca catcatgctg tttctactct 120
tgggatttcc aaaaggacca caggatattg gtccattctc attcagtttc tttttgcaca 180
gtatatgcct gaatggctct ggggtgtggag agcaaatatt ctcaaccgtt cactacgtaa 240
ggaagcctta tcctgcacag cctgagctcg gatggccact tgagaagttt tgccaactcc 300
tgggaacctc gatattctga catttgga aaacacattta atttatctcc tgtgtttcat 360

```

```

tgctgattat tcagcatact gttgattcgt catttgcaaa acacacataa taccgtcaga 420
gtgctgtgaa aaaccttaag gtgtgtggat ggcacaagat caataatgcc tgaggctgat 480
tgacgacatc tacatttcag tgctttttcc ctaagct 517

```

```

<210> 641
<211> 513
<212> DNA
<213> Homo sapiens

```

```

<400> 641
actggaacag ggataagttc ttggataagg tgccaacata cctataaaaag ctgattttttg 60
agtaaattat tgattctaac atatgtaatg gatttggtgt gataattttc tgatctttta 120
ctataagtga cttttttattc tccaccagaa aagataaatg actgagaatg taagtctgcg 180
ctctgattaa cacaatggag aaacggaaaa actatctctg ttaaaaactg attcctgtca 240
ttcttctgat atcaataaag aggaaggaaa ataaactttt tgtgtgtaga tagaaaaaca 300
tacctgagggc caggtgcagt ggatcacgcc tgtaatccca gcactttggg aggccaaggc 360
gggcgcatcag ctgaggtcag gagttcgaga ccagcctggc caacatgggt aaatcacgtc 420
tctactaaaa atacaaaaat tatctgggtg tagtggtgcg tgctgtaat cccagctact 480
cgggaggctg aggcaggaag atcactttta ttc 513

```

```

<210> 642
<211> 518
<212> DNA
<213> Homo sapiens

```

```

<400> 642
gactaaagaa gaataaaaat ttccactgat gattaaaaaa aatacttcca taatatcagc 60
agctaataat tgcaaaaaat ttaagaaacc attaaaagtt agcactaaat aatcttttaa 120
aatcacaaaa atgtgcactt caaatattat gccagaaatt ttgtccaaat attcatgttc 180
agtaaacaga gacacatagt tttcttgatt tgaaactgtt ctgaggactt gagaaactag 240
agaaaaacaag aaaatagcag cccacaaaat ttaaaagcta tcatctctac cattagcata 300
taaccatcca aaaatctgtg gaatgttttag atttactcat gaatgatgct cattcgtaga 360
aatattttga acaccagtag tgctatcaag gccagtaat gttccaagat aagattgttc 420
tctaggatct agcatttgtt caggtcgaac tgggtgaact atatttgag gttgaggagt 480
aagaatatat ttttccagaa aagctaaatc cgctgctc 518

```

```

<210> 643
<211> 276
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(276)
<223> n = A,T,C or G

```

```

<400> 643
acttcagaga tgaatgcatt cttggatgac ccagaatttg ctgatattat gctgagagca 60
gagcaagcaa tagaagtgg aattttttcca gaaagaatct ctcaagggtc aagtggaggt 120
tactttgtga aggatcctaa aaggaaaaat atggtgtgtt taaacccaaa tcagaagagc 180
cttatggtca actcaatcca aaatggacca aatatgtcca taagggtctgc tgcccttgct 240
gctntggccg aggcgtgcctg attcctaatc aggggt 276

```

```

<210> 644
<211> 242
<212> DNA
<213> Homo sapiens

```

```

<400> 644
gcgccgcccc gggcaggtac tttttttttt tttttttttt ttttaaaaaa aaaaaaggga 60
aaaaaaaatt ttttttaggg ggggtttttt ttttaaatg ggggggggtc ctttttttaa 120

```

```

aaaaaaagg gggccaccctc aaaaaaatTT ttttgTTTT ccccccttt ttcaaagggg 180
cattttttaa aaattggggg gaaaaagggt tttttttttt tttttaaaaa aattgttttc 240
cc 242

```

```

<210> 645
<211> 438
<212> DNA
<213> Homo sapiens

```

```

<400> 645
acttgaggga agtagcatct gggctttggg aatccagctc agcagagctc tcttcccat 60
tctcaaggtc ctctggctcg ctctcctcag agggcaggca gaaggactgg taattgttg 120
attccacca ggccatcttt ttcttatgtt cagcctcttc cttttgcctc ttcttctct 180
ctatgagtct ccttctcttg gcagctgctt ctgtgtttt cttctgtctg tcctccagct 240
cttctggact cagaaccgcg ttcttttttg tagatccctc cacaaggcct gggatgagaa 300
cactgccttt atttcggagt gatcgccctt cttgactagc tttctccaa agggttttct 360
gaaggtttac cagttgttca aatgattttc tgtcttcctt actgggctct ttagaataat 420
ctttaccttc aaataagt 438

```

```

<210> 646
<211> 500
<212> DNA
<213> Homo sapiens

```

```

<400> 646
acaatacgtt atatactgca ggaaaataaa ttgtaggctc agtcatcagc ttaatcaggg 60
atccttttcc cattagcttt tattaataaa aaatcacaat taggtcataa ataaacaggc 120
aaattattaa tacatgtatt gaggtttacg atgaaaactt gtcaaaaatta gtttgatata 180
cagcaaagtt atacaacaca ctaaaaccaa ctgttcaata gtttttgctt tgtgtgaact 240
gcccatagtg aaaaaggaac aaatttttag tgatgaaaga tacaataaac tatatttttg 300
aacttttcaa gaggaagaag gaaaaaagat ttcaacaaaa ttaagggcaa atacagatcc 360
taacaaaggc atcctgacat caggagggcc atgtgcttgc tatgtgtgaa agttgatccc 420
ccaacaacat acagaaaaca aaagctgcac tggctttgta agtatgtcta tagtctaagt 480
ttcctttatg gatactaagc 500

```

```

<210> 647
<211> 193
<212> DNA
<213> Homo sapiens

```

```

<400> 647
acacctacac ggatgcgaac ggcgataaag cagcatcacc cagcgagttg acttgtctc 60
caagttggga attgggaaga tgatgcatgg tcttatgaca taaatcgagt ggtggatgag 120
aaaggctggg aatatggaat caccattcct cctgatcata agcccaaata ctgggttgca 180
gcagagaaaa tgt 193

```

```

<210> 648
<211> 361
<212> DNA
<213> Homo sapiens

```

```

<400> 648
acatgagata atcaatgctt cttacaaaa tgggcttatg ttagaagact tttgcccagc 60
tgcaggctat tgtaagtgtt ctgagcacat atgagataac ctgggccaag ctatgatgtt 120
cgatacgtta ggtgtattaa atgcactttt gactgccatc tcagtggatg acagccttct 180
cactgacagc agagatcttc ctactgtgc cagtgggcag gagaaagagc atgctgcgac 240
tggccagtga catgcagagg atccagattg cacaaccgga tccagaggcc ttgggaagca 300
ttagggagct ctgcagctgt ctactcaaa tctgtagcag catatggacc cacaatgga 360
g 361

```

```

<210> 649

```


<211> 379

<212> DNA

<213> Homo sapiens

<400> 649

```

tatagggcga attggagctc cccgcgggtg cggccgaggt actaaaaaa aaaaaatcca 60
taccaaatat ttttacaat taagattgat gtaggtttta aaaaaggcat ttgtatgttg 120
ttagcttaca tatggggcta ggtaatttca ttgcttaaaa agatgcgcct aggtccctc 180
ttggtggctg gatttctttt tcttcgccg tgggtggccat gggtcttaat agggccaccg 240
gaatcatggt ttctttcttt ttttttttt tgagatggag tctcgccctg tgaccaggc 300
tggagtgcag tggcacgac tcggctcact gcaacctctg cctcctgggt tcacgccatt 360
ctcctgtctc agcctcctg

```

<210> 650

<211> 547

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(547)

<223> n = A,T,C or G

<400> 650

```

acttttatTT ctaaaaacat ctgccaaata aaaccaacca aaactcatta ttttcaccat 60
taccaagagc tagctctatt aaatttatat caacaagtta atctgtctct atatagggaa 120
ggtttccgca aactaaaatc taaacctaac ttttgtagac agggattatg gtaggaattt 180
ggtattacaa ctaaaccagc cagctaagga gtgaacctaa gaaaaaatat attacatatc 240
cttattgaca gaatcacagt tagatgctgc actaaaaccc taaatgggtat atctctcagc 300
ccacgtaaaa tttcagctca agaagttcac aaatagaaac agataataat gttcaaatat 360
tacttaagag tgattacact taagtcaaac atgggaaaga atagcaaata caaaccagg 420
ggaaaaatga gattatggtg atttccaaat gcagtttcta tagattaggc agaggtaatc 480
attttaaggt gattcattca gctaccaga ctctggaaaa caggtcgngg atgaggcaaa 540
gctctta

```

<210> 651

<211> 89

<212> DNA

<213> Homo sapiens

<400> 651

```

actttttttt tttttttttt ttttttttaa gaggaaaacc cggtaatgat gtcgggggtg 60
agggatagga ggagaatggg ggataggtg

```

<210> 652

<211> 553

<212> DNA

<213> Homo sapiens

<400> 652

```

acctgtgtta tgcctgtgct ccagcagctc attgcctccc gcatgaactc ttctaggttt 60
ggaaattcca ctttaaatat gaggaaatgt ctgctcatgt agatgatatg acttgcccta 120
gaacacaaat ctagaaaatg cagcaaccag aattttaccc aagtttggtg aacaccgaaa 180
tctagcctct tcccagact ggccccctct ctctgagcag taatagttag cattgtctggc 240
caccagggcc acccatcctt actagggtct ctggtcccta ctgcacaaaa ttctgttatt 300
tgggattcag acctctggaa aaacaaaaat ggagtttcta gagttcaatt gtgccaaaag 360
acaattgtca tcacatctcc tcttggaata gggaacatgt caaggttggt tgtgttcagg 420
cagcaggagt tcccctaact cgtgggaaaa gcaactgcac ctactcctg tgactgccta 480
ccaaaaaatc ctggcaaatg tagagagcca gtgaacagaa accaacccaa cagttacca 540
gggggaaaca aag

```

<210> 653
 <211> 557
 <212> DNA
 <213> Homo sapiens

<400> 653
 cggcaagcgc gcagtgtcga ctccccggtc tatgccaggc gcatctcagc taatccaaaa 60
 gtaaatgaga aacttagaaa aagattgcca attccaaatc aacatattta gagaaaattg 120
 gaaaaggaga agcttactac agctttatctt gaggactttt taaagaacgc tgggttctat 180
 ctgtgagctg caaatcttgg agcaaaaacc agagacattg ccagagcaaa caagaacaga 240
 aatacaaatg gagaactggt caaaagacat aaccacagc tatcttgaac aagaaactac 300
 ggggataaat aaaagtacct cggccgcccgg ggcagggtact ttaccagcag accacagttt 360
 tgccctggct agaccaaccc tcagaacaaa atcatcattc cttgtattta ttttgtatc 420
 tgagatagta aacaagatgg ctggccaggc caacatggca ccttaactta tttttttaat 480
 aggtaaaact tcttcaaaag tagcttgctt tgtataagaa ctaagctatc agtttagata 540
 tagctatcct tggagct 557

<210> 654
 <211> 218
 <212> DNA
 <213> Homo sapiens

<400> 654
 acgataattg tgttgatttg tctgttgctt tttggatgtc tccaagatcc aggaaatgct 60
 catgagcatg attctttgag acagtgggta ttttattctc ttttggaaca gtttaagtgtt 120
 ttcttttctc ttctgacctg taagtcttta tttcttcttc tccctttgca gttctccatt 180
 cttcttgctt actggctaca ccagctgata gctcgggt 218

<210> 655
 <211> 208
 <212> DNA
 <213> Homo sapiens

<400> 655
 acaatgaagt aaaaccatcc aaatctgaca gctagtgttt tcttatttag ccggagtgag 60
 aagcaagaag gccctggaca cagcaatatc tctgggcttt cacagggtgtg tagatgaatg 120
 aaaaaatgga ttgataaatg tataaaaaaa aaaaaaaaaa aaaaaaaaaa ggaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aggccttg 208

<210> 656
 <211> 246
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(246)
 <223> n = A,T,C or G

<400> 656
 nttttttttt tttttttttt ttttttttga gtgacagaag ctgcttttta tgtaggagca 60
 cacagaaaat cccagggcag ccaggagctt tcagggccgg aggaggtttg cccaccgcat 120
 acgcagtaat ggggaacaga aaccgggcag gctgcatttg gtgatctcag gagaaaggct 180
 tcctcagtggt gtcgaaaagaa accacacgcg gcctggggca gaagacctgc ccttaggggtg 240
 gccgag 246

<210> 657
 <211> 563
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(563)

<223> n = A,T,C or G

<400> 657

```

acttaaaatt tacagctgac tcaaattgcc tcacagaatt atttgatgta gaaggctagt 60
tgtcttactt cagatcagca ggacagttgg gctctcagac tcatgaccac tgagtttgct 120
tgtgttgaaa ctgtggtttc atccaacata tgctattgga catgattatt attcaattca 180
aatggattac agacttcttg aggacaggac aaacttatct ctcatgggtg ttttttagaa 240
tacttttata accaaggaag aaacatgcc agctgttacc attcaacttc ttaagcagag 300
attaagcttt ttcatatctg ttcttatcct ggacatcagt agtttttaat tgcccagcat 360
ccgttccatc ttgtaacaac tccctgatgt ttcttaaaac cacctcttcc ttttttcagt 420
ctgtggtttg gacagtctga cccaacctg agctttgtgg gtgaacatgt aattcagacc 480
tcatcaatca gcaaatccat ctgaactgtg gaggagaagc tctctttact gaggggtgctt 540
tagctntgta ggatgaaaac ctc 563

```

<210> 658

<211> 569

<212> DNA

<213> Homo sapiens

<400> 658

```

ccaaatactg cctagtgtat tcaacaaaag gactgtggtc atgtaacagg taaccacaat 60
tttcaggttt cttaaaaaca gctgtaacta actcaggatt tttatcttga gatttccctg 120
aataatataat ttatcttaag agccttcaag tttcaaatta atattggaac atctggaatt 180
gcaacaactt ttgtctttta cataaactta cgtcatttaa aaaatgtctt caaaatctac 240
ctttctcaaa ttctttttgc ctctatttat ttttgcatct caccaacagt gataaaatag 300
ttaaattgaaa caaagcaaag tatcaacagt cccttaaatg agaatcctta tctttgatct 360
ttattttctg tgtttagtgt tagggctctg gtgcagctca taatgctaatt tcttcatttg 420
aagccactcc cttcacctca cctcacctag tcactattgt ctttggtcat tgtttgatcc 480
tgagtgtgtg attgatatag ctttgaatct tttttagtac aagtttgaaa acactgttct 540
ggccctaaag gctggctatg acctttact 569

```

<210> 659

<211> 583

<212> DNA

<213> Homo sapiens

<400> 659

```

gactaaagaa gaataaaaaat ttccactgat gattaaaaaa ataacttccat aatatcagca 60
gctaataatt gcaaaaaaatt taagaaacca ttaaaagtta gcactaaata atcttttaaaa 120
atcacaaaaa tgtgcacttc aaatattatg ccagaaattt tgtccaaata ttcattgtca 180
gtaaacagag acacatagtt ttcttgattt gaaactgttc tgaggacttg agaaactaga 240
gaaaacaaga aaatagcagc cccacaaatt taaaagctat catctctacc attagcatat 300
aaccatccaa aaatctgtgg aatgtttaga tttactcatg aatgatgctc attcgtagaa 360
atattttgaa caccagtagt gctatcaagg ccagtaatg ttccaagata agattgttct 420
ctaggatcta gcatttgttc aggtcgaact ggggtgaacta tatttgcagg ttgaggagta 480
agagtatatt tttccagaaa agctaaatcc gctgctcgtg gataatcagt tgactgtggc 540
tgtgttgaca gaatctcatg agaagatggt gggagtgtgg tag 583

```

<210> 660

<211> 412

<212> DNA

<213> Homo sapiens

<400> 660

```

accttcagag aaaaccaaac agcctaaaga atgttttttg atacaaccaa aggaaagaaa 60
agagaatacc accaagacca ggaaaagacg aaagaagaaa attactgatg ttcttgcaaa 120
atcagaacca aaaccaggtg tacctgaaga cctacagaag ctgatgaagg actattatag 180
cagcagacgc ttggtgattg aattagaaga actgaacctg ccagactcct gtttcctcaa 240

```

ggccaatgat ttgactcaca gtctttcctc atacctaaaa gaaatttgtg ctaagtgggt 300
 aaaactttacg aagaaccaca gtgagaagaa atcggtcctg atgctgatca tctgcagctc 360
 ggccgtccga gccctggagc tcattaggtt cgatgacagc attcagagga ga 412

<210> 661

<211> 439

<212> DNA

<213> Homo sapiens

<400> 661

acctttctgcc tgttttcggtt atactgaatg accagttcaa aaccaaagtt ttccaataac 60
 gctttggcag catttcctct ggcccctgaa gctattcggg gtggtgggat ggatgggtcc 120
 aaggattttt gcttctttgt gtctttgcct tctttgagtc cttcaccttc acttataaat 180
 tcctgctttg gtttttctgg cttttcagaa atatcttctg cctccttata agatggcaca 240
 tccttcatga tttggcagtc tgcactcact atgttacttt gctcttggtt caataatttg 300
 cttgcctgct gttgctgctg ctgctgtgga ggtcgggggc tgctgctggt gattttgagg 360
 ctgcagctgg ggctgtgtgg cttgggtattg gtgggcttgt tgctgtagta tctggagttg 420
 agtttgacca acgtgatgt 439

<210> 662

<211> 396

<212> DNA

<213> Homo sapiens

<400> 662

acaagctttt tttttttttt tttttttttt catgttaaga agtttatttt atggaccaca 60
 gcagaaatth cagccaagtt ttttagagga aatcacctgg gtgtggcaaa cagacagggc 120
 ttccattatt ctacctttag gatthcaata gtataaaacc ggthgttttt gatggggatt 180
 acagcagcat tatcagggca gatgcctaata tcccgaataa catcaacgac ggctgcaatt 240
 tgcacagttc tgttggtgta aaagtccag tagaaggtht ttggattgtc gtcacatagg 300
 caggcagtat acttatagtt aaatgcacct tgtagaggga tgctgctaata gaggttaagtt 360
 ttaaccacca tgcattcttt caattctggt tgaact 396

<210> 663

<211> 426

<212> DNA

<213> Homo sapiens

<400> 663

accatctgat ctttttggcca tgtgcataca tcattctttct tgcccccaact cccctttcta 60
 agaacactta attaacaggt tatthtgaga tattattgct tcattgtgac taccggtggt 120
 gttatttttc aaaatactgt agataagtgc caagthtttg aatttagaac ttccccttg 180
 atthttcatta aactthtata ttgcttcctt gatgctthta tcataacgat ttctattaa 240
 gcataaagtg acactthcaa tgggagthtt gctthtataa aaatttgta tggatcatt 300
 agacactgct gctcaagaac ccattthttac accccaaagg gcatttgatg atttataaac 360
 atcatcaaga ttatacatthc tatthtgact attaaaaaca taaaactgca gtaagattth 420
 acatgt 426

<210> 664

<211> 376

<212> DNA

<213> Homo sapiens

<400> 664

actatgtgca aaaagcccag accaaagaac aggcagattt tgcagtagaa gcattggcaa 60
 aagctaccta tgagcggctc tttcgtggc tcgttcacg catcaataaa gctctggata 120
 ggacaaaacg tcagggagca tctttcattg gaatcctgga tattgctgga tttgaaatt 180
 ttgagctgaa ctcttttgaa caactttgca tcaactacac caatgagaag ctgcagcagc 240
 tgttcaacca caccatgtht atcctagaac aagaggaata ccagcgcgaa agcatcgagt 300
 ggaactthc cgaatttcggg ctggatctgc agccatgcat cgaccttaata gagagacctg 360
 ggaacccttc tgggtg 376

<210> 665
 <211> 348
 <212> DNA
 <213> Homo sapiens

<400> 665
 acttttaggt gcaggtgggt tacgagtggc ccaattgggt cggatttgac gaccacccaa 60
 ccaactgaccg cccatatgca caatcgcat ttctgcatcc agttttgtta taaaaagata 120
 caaaaccata gcctttggat tttccagttg ccatgtcttt aactaccgg gcacccgata 180
 ttttaccaaa gggggcgaat gctgatttga tatcttctgt tgtaatttct ggactcaaat 240
 cccaacaaa cacatggaag tgattggaag tatctttttt ctggctactt ggtgttggtt 300
 gccagttta ctttgacctc ctttcccaaa atttttcttc cattcata 348

<210> 666
 <211> 265
 <212> DNA
 <213> Homo sapiens

<400> 666
 actggcctcc cgggagccac tgtgaccagg cctttgagct cttgtcatct gtggagagaa 60
 tcatgcaaat tttaaaagtt cttccaagag acttccatgt cctggttatt aacaaaaaag 120
 gaaaaatgta ataattgata tgatttttga aaagtatttt tcttgaaata atctaaagtt 180
 taaaacatta tattaaaaaa aaagtgtgtt ggtgggaatg tgaaagcaga gaaataactt 240
 gtaaatggat aattttgttc tctgt 265

<210> 667
 <211> 405
 <212> DNA
 <213> Homo sapiens

<400> 667
 acctgtgtta tgctgtgtct ccagcagctc attgcctccc gcatgaactc ttctaggttt 60
 ggaaattcca ctttaaataat gaggaatgt ctgctcatgt agatgatatg acttgcccta 120
 gaacacaaat ctagaaaatg cagcaaccag aattttaccc aagtttggtg aacaccgaaa 180
 tctagcctct tcccatgact ggccccctct ctctgagcag taatagttag cattgctggc 240
 caccagggcc acccatcctt actagggctc ctggtcccta ctgcacaaaa ttctgttatt 300
 tgggattcag acctctggaa aaacaaaaat ggagtttcta gatttcaatt gtgccaaaa 360
 acaattgtca tcacatctcc tcttgagaaa aggaacatgt caagg 405

<210> 668
 <211> 285
 <212> DNA
 <213> Homo sapiens

<400> 668
 attttattct ttgtgagtta attagaataa agtcattttc ttccaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 gctggaacct ggagccgcaa ccaccctaag cccaaaattc ggagatttc catcacacgg 180
 gcggccggtg gggcaggcat ttaaagggcc caatggggcc tataggaggat cgaattacaa 240
 tgaacgggcc gccgtttaac aacgggggga cggggaaaac cgggg 285

<210> 669
 <211> 266
 <212> DNA
 <213> Homo sapiens

<400> 669
 cgaccacgc gtcggttttt tttttataaa tacacaattt tatttgctat ttccagggga 60
 aacttaggca ttaaaactgta agctgataaa atacgatacc taaaaaagta taaaagtata 120
 aatatccctc tagaataaat tttagtgaat taagtcttaa tatctttaa ttaaaaaaac 180

cacaagccta tctactatgt caaggtcaaa aatcaaacaa cgctaagcgg ccagcagctc 240
cccagagagg atgccagga gcccca 266

<210> 670

<211> 290

<212> DNA

<213> Homo sapiens

<400> 670

acaagaatgc cgtaagggca gactctctcc cactcccact gatgtctatc gatagcggaa 60
ggcatcaatc atcgatcatat actcatagca gaatgccata caacaagtaa aaggactgga 120
ctgaaagtcc aggagtaaata cttgaaaaca tgacacatgt tctagaataa gacattaata 180
agaagacata gaatacagct gcacctgtat aaaattttta aacatgccaa atgagacagt 240
caaaggatca gtggttgtca gagttcaacg ggagggtgca gggtaaacag 290

<210> 671

<211> 192

<212> DNA

<213> Homo sapiens

<400> 671

acattttctc tgctgcaacc caggatttgg gcttatgatc aggaggaatg gtgattccat 60
attcccagcc tttctcatcc accactcgat ttatgtcata agaccatgca tcatcttccc 120
attccaacc tggaggacaa gtcaactcgc tgggtgatgc tgctttatcg ccgttcgcat 180
ccgtgtagggt gt 192

<210> 672

<211> 394

<212> DNA

<213> Homo sapiens

<400> 672

acgacatggt tgtgaatttc ccagaccagc cgggtggtgtg gagagaaatc agcattatta 60
catgagcatt aaggaacgat tcacaggaca aacaaacca atttttaaga agtttatttg 120
aaactcttcc tgggtcgagtc cagtgtgaaa tgttactaaa ggtcacggaa caatgcttca 180
acacgttaga acgatcagaa atggtgcttc tacttttgag gcgcttccct gaaacgggtg 240
tgcagcatgg ggttggcctt ggggaggcac tattagaggc tgaaactatt gaagaacaag 300
aatctccagt gaactgcttt agaaaattat ttgtttgtga tgtccttccct ctaataatta 360
acaaccatga tgttcgatta cctgccatt tatt 394

<210> 673

<211> 300

<212> DNA

<213> Homo sapiens

<400> 673

actcttaacc ccattagaac tgtttttcct tttgtatctg caatatggga tggatttggt 60
ttcatgagct tctagaaatt tcacttgcaa gtttattttt gcttcctgtg ttactgccat 120
tcctatttac agcatatttg agtgaatgat tatattttta aaaagttaca tggggccttt 180
ttggttggtcc taaacttaca aacattccac tcattctgtt tgtaactgtg attataattt 240
ttgtgataat ttctggcctg attgaaggaa atttgagagg tctgcattta tatattttta 300

<210> 674

<211> 478

<212> DNA

<213> Homo sapiens

<400> 674

actgccgggg agccggcctc ggcttctcca ccgcccccaa caagatcttt tacattgaca 60
ggaacgcttc caagtcagtc aagctggaag attaaactct agagttttgt cccccaaaa 120

```

ctgccacaat tgctttgatt attccattta tgctggagat tacaaatttt ttttgtgaaa 180
aaatcagatc ttggtgagga cctcgagcgg taagatataa ataactcca taagcttagc 240
gttccagtga tggaaacta ggcataaatg gtttattcag ttgtgcaa at gaaagccatc 300
tgacagttgg ctacacattga acacctgtgg agattaagga cgaggacaac tatattgatg 360
ggcttgatg aactggggca gggcagctca ttttgcggga gccaggagaa cgagtgaagt 420
ctaaaacctc ctgctttctg tgttaaacat tccgtccctg tttgagacat cagtatgt 478

```

<210> 675

<211> 192

<212> DNA

<213> Homo sapiens

<400> 675

```

acattttctc tgctgcaacc caggatttgg gcttatgatc aggaggaatg gtgattccat 60
attccagccc tttctcatcc accactcgat ttatgtcata agaccatgca tcatcttccc 120
attccaacc tggaggacaa gtcaactcgc tgggtgatgc tgctttatcg ccgttcgcat 180
ccgtgtaggt gt 192

```

<210> 676

<211> 192

<212> DNA

<213> Homo sapiens

<400> 676

```

acacctacac ggatgcgaac ggcgataaag cagcatcacc cagcgagttg acttgtcctc 60
caggttggga atgggaagat gatgcatggt cttatgacat aaatcgagtg gtggatgaga 120
aaggctggga atatggaatc accattcctc ctgatcataa gcccaaatcc tgggttgagc 180
cagagaaaat gt 192

```

<210> 677

<211> 388

<212> DNA

<213> Homo sapiens

<400> 677

```

ctgcaatggt gcatacagcc aaagctcaac attggaaatc cacatgaggt ctgtgctcca 60
ccagacaaag gctagggctg caaagctgga gccagtggt catgtggctg gtgggcacag 120
cattgcagca aatgtcaaca gccctggcca ggggatgta gattccatga gtttagcagc 180
tgtaaacagc aaagataccc atttagatgc caaagaatta aataaaaagc aaactcctga 240
tttaatctct gctcaacctg cacatcacc accacagtca ccagcaca aa ttcagatgca 300
actacagcac gaattacaac agcaagccgc attctttcag cctcagtttc taaaccagc 360
ctttttgcct ctttttctta tgacccca 388

```

<210> 678

<211> 231

<212> DNA

<213> Homo sapiens

<400> 678

```

gcgccgccc gggcaggtac tttttttttt tttttttttt tttttccaa aaaaaatttt 60
taaaaaaagg tttaaagggg cttttttttt tgggtaaaaa aaaaaaaaaa tttttaaaaa 120
actccctttt ttggggggaa aaaaaaaggg ggggtaaaaa attttttttt ttttcccaaa 180
acctaaaaac ttagggggaag ggggttttta aaacaaaaac acctttcttt t 231

```

<210> 679

<211> 477

<212> DNA

<213> Homo sapiens

<400> 679

```

acctgtctga agagtgcacat taaactttga aaggacttca ctgctccttt acgatattcc 60

```

```

aaatagtttt ttacattgga aaagctaatt cttgggattc tttcatacat tttcatcaaa 120
actttcagtg tgattatgta ttcataatctt cagtttaata tgtcagtata atagatattg 180
ttcaaaagtt tcttggtgct aaagtgggtg aatctgctac acagatgaat agctagatgt 240
ggaaagagat atgtaaaca gaaacctttg ggtattgttt ctttaagtaaa tattgggaca 300
atcatggtaa gcaaacttag ttctgtaact gcatttttca ccttaaaagt taaatgaaat 360
gcatgatggg attttattcc ttgaattatg caatgcaaca tattacatgt aaatagcact 420
ggtcatatac tgatgtatat gggtatcttg gttatatcta ttottatgta aactcta 477

```

<210> 680

<211> 327

<212> DNA

<213> Homo sapiens

<400> 680

```

acattcctta agtcccagcc tctcaaacta cagtcaaccg ccccggtcac cagcaaattc 60
tcattgtatt tacaccagtc acaactcaag atttctgcct gatgtgcagg aatcacgatt 120
cttactcctg ctgccttcac atcccatatt ctgagagtct gatcacctga ggctgaagca 180
aaacaaccag ggatgtgggg agaccagatt gtgctataaa taatactttc atggcctcta 240
aagggtgaca gagactttcc aacagttgga tcccacaatt tgacagtttg atcccatgag 300
ccagacacca caagctgttc acctctg 327

```

<210> 681

<211> 193

<212> DNA

<213> Homo sapiens

<400> 681

```

acacctacac ggatgcgaac ggcgataaag cagcatcacc cagcgagttg acttgtcctc 60
cagggtggga atgggaagat gatgcatggg cttatgacat aaatcgagtg gtggatgaga 120
aaggctggga atatggaatc accattcctc ctgatcataa gcccaaatcc tgggttgag 180
cagagaaaat gta 193

```

<210> 682

<211> 286

<212> DNA

<213> Homo sapiens

<400> 682

```

acctgtgtga ccaattggta gtacatagat tcacatggct ttccccata ttgaagatgg 60
aatttttgat caactgtgac atccaaagca aatacgagct ttattcagct tgcttctttt 120
taaatacaaa ataatgttt attctgataa atcaagtggg agagtagtgt gggatctatt 180
gatggcctct ggtaacatct aacctctgtc tottagtaag tgtgctgttt gaggatcttg 240
tatttcaagc tggaacatta attactgtcc attagactct tttccc 286

```

<210> 683

<211> 206

<212> DNA

<213> Homo sapiens

<400> 683

```

accaaatacca tcctctgact tattcttttt cagggaatct ttctccgtcc cttgtttgca 60
tttcttggtg gctgtaaaga tgtattttat gtcaccatct tcaaaggat atgggtcatt 120
cacttctccc aaactgtctc cagggtgttg tgatagaggc aatgggtcaa ggaagtggag 180
tggtgcaaac tggcgtgtt tgtctt 206

```

<210> 684

<211> 411

<212> DNA

<213> Homo sapiens

<400> 684


```

acagctgccc aagggcggtc gtaacgggaa tgccgaagcg tgggaaaaag ggagcgggtg 60
cggaagacgg ggatgagctc aggacagagc cagaggccaa gaagagtaag acggccgcaa 120
agaaaaatga caaagaggca gcaggagagg gccagccct gtatgaggac ccccagatc 180
agaaaacctc acccagtggc aaacctgcca cactcaagat ctgctcttgg aatgtggatg 240
ggcttcgagc ctggattaag aagaaaggat tagattgggt aaaggaagaa gcccagata 300
tactgtgcct tcaagagacc aaatgttcag agaacaact accagctgat cttcaggagc 360
tgcttgact ctcttatcaa tactggtcag ctccttcgga caaggaagg t 411

```

<210> 685

<211> 240

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(240)

<223> n = A,T,C or G

<400> 685

```

ccagcagctt ccagccagtc cccacagcct catcagctct cttaccgttt tttgatacta 60
tcttcccca ccccagcta cccatagggg ctgcagagtt ataagccca aacagggtcat 120
gctccaataa aaatgattct acctaccnaa nannnnnaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaaaaaaaaa gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggttgt 240

```

<210> 686

<211> 508

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(508)

<223> n = A,T,C or G

<400> 686

```

acagactctc tcccatgctg gattaaactt cttaaatact tggaacatct gggccaggcc 60
ttcagtgtcc tccttggcag ggatggcaaa gtagactgct cgggcaagat gaccctocag 120
ctgcaccga ggtccatcca ccaggaagg atataagacc ttacccttg ggttatagg 180
ccggtggata aataagatct cagggaatg gtcaaagaca ctttgcataa agcagctctg 240
gtagtgaag gtatctaact gggcagctct gttaacctgg tgcagcagca taggtgggct 300
tgagtctta atcaggagcc cattcagcat tgtcagggcc atgggagaga tgagagctgt 360
ccaaatgcca aggtcaaat actttctttg cagggcagct gaccacgggg ctttgagtct 420
ctcaagcatc aagtaagttg aggctggagg ctagacaatc attcccagat ctttnttcaa 480
agatgggccc acagccaggc tccgtcgc 508

```

<210> 687

<211> 282

<212> DNA

<213> Homo sapiens

<400> 687

```

acggccaggg atgtggaaga tggggacatt cccaaaaaag gcagcaaaact tctccgcatac 60
catcgtggct gatgtgacga tgagcttcag gtotgagcgc cgagccacta cctgagagaa 120
gaggcggctc ggaggcccc atggtgggga cccttggctc ctgtcccca gtcccatcag 180
caccacccc gaggaacac aagccaaagc tgacaaatgg gcctattcaa ttcttaccaa 240
tcatgaagac tgaagcaatg gagccactgc ccagaaaacc cc 282

```

<210> 688

<211> 51

<212> DNA

<213> Homo sapiens

<400> 688

gcggccgcag ccatgagtat gctcaggcctt cagaagaggc tcgcctctag t 51

<210> 689

<211> 192

<212> DNA

<213> Homo sapiens

<400> 689

acacctacac ggatgcgaac ggcgataaag cagcatcacc cagcgagttg acttgcctc 60
cagggttggga atgggaagat gatgcatggt cttatgacat aaatcgagtg gtggatgaga 120
aaggctggga atatggaatc accattcctc ctgatcataa gcccaaatcc tgggttgag 180
cagagaaaat gt 192

<210> 690

<211> 406

<212> DNA

<213> Homo sapiens

<400> 690

acaatttgaa ctgttcagat tcctaaaaat catatggctg tttaggatgt cgaaaccatt 60
cttagagcct agacataata tctgaagtaa gtatcagcaa tgcttttaat aattccaaaa 120
ctgttttagt agaaaaataag cttgcatgaa gaagggttaa aaataataaa tgggtgataa 180
attgatTTTT tttctcccat acaaaactca tgacaacatc atggccataa cgctaattgca 240
ttatgaatgt atggtgtgaa atgtgccatt caaaagcaca ttcaggctga ggaaagacag 300
gcctaagggtt aaggccattg ccactatTTT agttcattca taatcaaaac atgtaattag 360
cggtagtaaa agcattctac tgaagagtcc aaagggggac acgatc 406

<210> 691

<211> 440

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(440)

<223> n = A,T,C or G

<400> 691

ctgtgatttta atttttgtga taatttctgg cctgattgaa ggaaatttga gaggtctgca 60
tttatatatt ttaaatagat ttgataggtt tttaaattgc tttttttcat aaggtattta 120
taaagttatt tggggttgct tgggattgtg tgaaagaaaa ttagaaccac gctgtattta 180
catttacctt ggtagtttat ttgtggatgg cagttttctg tagttttggg gactgtggta 240
gctcttggat tgttttgcaa attacagctg aaatctgtgt catggattaa actggcttat 300
gtggctagaa taggaagaga gaaaaaatga aatggttgtt tactaatttt atactcccat 360
taaaaatctc taatgttaag aaaaccttaa ataaacatga ttgatcagta aaaaaaaaaa 420
aaaaaaaaaa nnnaaatggc 440

<210> 692

<211> 342

<212> DNA

<213> Homo sapiens

<400> 692

acccgagccc cgcttaccct gcctttgcat gtgggtcagg atatgtgac tocaaggaca 60
tcgtcaagtg gctggcaagc aactcgggga gggttaaagac ctatcagggt gaagatgtaa 120
gcatgggcat ctggatggct gccataggac ctaaaagata ccaggacagt cagtggctgt 180
gtgagaagac ctgtgagaca ggaatgctgt cttctcctca gtattctccg tgggaactga 240
cggaactgtg gaaactgaag gaacggtgcg gtgatccttg tcgatgtcaa gcaagataac 300

agggacttga attagcagag tctaaaatca gggcaggcaa ac

342

<210> 693

<211> 384

<212> DNA

<213> Homo sapiens

<400> 693

actagaccag tggagaattt gacacctttt ctttttgtaa aagtttatgg tattataccg 60
 atagaccaaa acagcatgtg taagaggcag tatctgcaact aattctcaac atgctaaaca 120
 ttaactacaa ttcactgttg tgagaatatt cctcgtcaca gcaaaaacac tttcctttct 180
 actgacaacc agtcctccac atcacagcat ttagacatat gggtaaaatg ttattttctag 240
 tgaattgttt gtatcagttt catgtctaag tataaatttt ctatttttaa atttaagaac 300
 cgtttataat cagtgccttc ccaactcttg gggtgctctc cataactatg tttttgtgaa 360
 agaaaatggg catttttttt actg 384

<210> 694

<211> 632

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(632)

<223> n = A, T, C or G

<400> 694

acacactggt accagtttta taaaatcagg gtcactctgg catggagtcc cagctccatg 60
 caacatccca ctggacatct ccttccttgc ttcactggca ggctgggtct cctgtcatte 120
 ctactccatt agttcaaggt cagtgaagaa ctggggcaat taaccaagta attcatggac 180
 tgcccaactg cgaaacaaga agggcgaggt ggagcaggag tattatgcta cgcggttacc 240
 tttttttatg gaggaccgaa ctgaggctga gcctcagatg atcctgcacg aggttatgca 300
 gtctaaataa aaggctgtaa ctattcgttg aaacatacga aactgctaac attggactgt 360
 ttctgacttt taaagtggca atttcatatg gttcaaccta tagaagccaa aactttctct 420
 ggcacaacag attgcttcag gccatctcta cccagctaaa caccocatcc cactaacacc 480
 tgtaactagg agggaagcaa gagttctttg taagaagtag ctaactactt cttttcctag 540
 cttgtgcacc caggctctaa gggaagaagg cctaggggtct ctataatgct ngatacctag 600
 ttaaaatcac atctaaatgg cttactattc at 632

<210> 695

<211> 308

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(308)

<223> n = A, T, C or G

<400> 695

gaagtcogta gtgtctcatt gcagataatt tttagcttag ggctgggtgg ctaggtcggt 60
 tctctccttt ccagtcggag acctctgcag caaacatgct ccgccagatc atcggtcagg 120
 ccaagaagca atcgagcttg atccccctct ttgtatttat tggaactgga gctactggag 180
 caacactgta tctcttgctg ctggcattgt tcaatccaga tgtttggttg gacagaaata 240
 acccagagcc ctggaacaaa ctgggtccca atgatcaata caagttctac tcagtgaatg 300
 tggattac 308

<210> 696

<211> 514

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(514)
 <223> n = A,T,C or G

<400> 696
 accttttattt ctaaaaacat ctgccaaata aaaccaacca aaactcatta ttttcacccat 60
 taccaagagc tagctctatt aaatttata caacaagtta atctgtctct atatagggaa 120
 ggtttccgca aactaaaatc taaacctaac tttttagtagac agggattatg gtaggaattt 180
 ggtattacaa ctaaaccagc cagctaagga gtgaacctaa gaaaaaatat attacatatc 240
 cttattgaca gaatcacagt tagatgctgc actaaaaccc taaatgggtat atctctcagc 300
 ccacgtaaaa tttagctca agaagttcac aaatagaac agataataat gttcaaatat 360
 tacttaagag tgattacact taagtcaaac atgggaaaga atagcaaata caaacccag 420
 ggaaaaatga gattatgggt gatttccaat gcagtttcta tagattaggc agaggtaatc 480
 attntaaagt gattcattca actaccaga ctct 514

<210> 697
 <211> 282
 <212> DNA
 <213> Homo sapiens

<400> 697
 accattttcta ggcttcttaa agcggacagc atatgcacat gtctgtcctc cataccgtgt 60
 tcattatggt ctaaaagttg gatcccatca gtttgtttta tagaatgaag acaggtgtgt 120
 gtgtgtgtgt gtgtgtgtgt ggggtgtgtc cacaagaga gagagagaga gtgagagtgc 180
 gtgactcttt ggacatttgc tgtttattta taatgcgacc ccagatatgg agtttcagt 240
 tctggaggac gtgttacagc atgtggtatc ctgggcatct ac 282

<210> 698
 <211> 129
 <212> DNA
 <213> Homo sapiens

<400> 698
 accgctccaa actcatcctc ttccccagga agccctcggc cccaagaag ggagacagtt 60
 ctgctgaaga actgaaactg gccaccagc tgaccggacc ggtcatgccc gtccggaacg 120
 tctataaga 129

<210> 699
 <211> 238
 <212> DNA
 <213> Homo sapiens

<400> 699
 accattttcta ggcttcttaa agcggacagc atatgcacat gtctgtcctc cataccgtgt 60
 tcattatggt ctaaaagttg gatcccatca gtttgtttta tagaatgaag acaggtgtgt 120
 gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt cagagagaga gagagagaga gagagagaga 180
 gagactttca agacctttgc aaataatttc cactgtgacc ccagctctgc agtctcat 238

<210> 700
 <211> 481
 <212> DNA
 <213> Homo sapiens

<400> 700
 actcgtcaat gggctcggtc atatatacca cctcgaagcc ccgtttccgc actcgtcca 60
 caaaagctga gttggccacc tgctctttgc tctcaccagt gatgtaatag atggacttct 120
 gtgtctcctt catgcgagaa acatactctg acagagatgt catctcatct ccagactggg 180
 aggtatgata gcgcagcagc tcagacaggc ggcggcgggt agtggagtct tcgtggattc 240
 caagcttgag attttttagag aatgcctcat agaatttctt ggaattctcc ttgtcttctg 300

```

ccagctcaga gaagagctca aggcacttct taacaatggt tttgcgaatg actttcaaga 360
ttttgctctg ctggagcatt tctcggaaga tggtcagggg cagatcctca gagtcaacca 420
caccacggat aaaattgaga tactctggta tcaactcatc cagctgtcca tgatgaacac 480
a                                                                                     481

```

```

<210> 701
<211> 447
<212> DNA
<213> Homo sapiens

```

```

<400> 701
ttacttttag aataatztat atctgataaa ttgaatacat caggatttga tgtattaaga 60
gcaatttcaa aagataataa aaataagcta tagcatatgt cctgaaaact atttacaata 120
ccattttaat attttattca tatctatccg aatattgacc aggacactaa tgccacactg 180
cagagttaat aatctgtgca ttttctttac cgtaatggac agagtatgct ttcttagctg 240
cctgattcac atttctctaa aaatgcttta tcggttaaaag ctttcaacca gcttaaaaaat 300
aatgcctctc ccatgtcttc atgagtggaa aaaaagcaaa caaaccttgt gtttaacaat 360
aaggtcagca tgacatacag caacaagagc cagtaaatcg aaaatgaggc tgacattctg 420
ggactaggcc agcagtcctg caacagt                                                                                     447

```

```

<210> 702
<211> 192
<212> DNA
<213> Homo sapiens

```

```

<400> 702
acattttctc tgctgcaacc caggatttgg gcttatgatc aggaggaatg gtgattccat 60
attcccagcc tttctcatcc accactcgat ttatgtcata agaccatgca tcatcttccc 120
attccaacc tggaggacaa gtcaactcgc tgggtgatgc tgctttatcg ccgttcgcat 180
ccgtgtaggt gt                                                                                     192

```

```

<210> 703
<211> 451
<212> DNA
<213> Homo sapiens

```

```

<400> 703
gagaaagtga tatacatact acataattgt tctgttggtt aatatgccca aaataatagt 60
tactatcatt acatcttaca gaaacaaaaa ctttaagctt attacttttc agaaggaaaa 120
aagtatccta taactgaaaa taaattttcg ccacaatagc aaaatagaaa aaataaatct 180
tcttgaaaca ttagcaagag attttagttt ttatttggtt aaagagtata ggtgggtggt 240
ttcaagaaaa gacttttgct aaaagcagct agcaataaga ttatggctat caaacagtt 300
tctttcatag aaagtgacca tttcttgaag tgctactgtt tttgaaagtt tcttagaaca 360
gtctcagcat tctaaacagt ctgtagttct acatatttgt tgttgcaatc ttgggcagga 420
aatcactaa taacaggaaa cagaggccgg g                                                                                     451

```

```

<210> 704
<211> 537
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(537)
<223> n = A,T,C or G

```

```

<400> 704
cttctgtcgc accaggctca tcctgtccat cgtgtgcctg atgatcacgc agctggctgg 60
cttcagtgga ccagtaagtt ctaaccatcc tttccgacag tctccagggg cccggccacg 120
gccagctcta acactcttat tctgttgacg aggttggtgct cagctttggg ctaggtagca 180
gtcttagaga tgccttcagg tctgttgaaa ggggtcgatg gattttggca acagctggaa 240

```

```

ggatgaaagg gcagtggtgc cagagaagaa atggaactgg cttgatttct ggngtggggg 300
tgaaatggaa ctgactccag ttctgcacag gactgtgctt ctnggttgt gtgttaacat 360
gaactgacag tcggtgcagg cagatgtgtc ttgcagtgtc atgagtgggt gagagcacgt 420
ttgtgtggcc cgggctggtg agccagcacc gggaacatac caagtgcctg gaggcagtta 480
tcacatgttt ggcaggtctg gggcaaataa gccctgagaa aactagagga ctgtcga 537

```

<210> 705

<211> 501

<212> DNA

<213> Homo sapiens

<400> 705

```

tccgccgact cgcccccgcc gctgaggttc ctgcgtgaag accagctggg agcccaactgc 60
ctgctgccac ctccaactcc ggccccctca ccatgcactc cctggacgag ccgctcgacc 120
tgaagctgag tatcaccaag ctccgggagg caagagagaa gcgggagagg acgctgggtg 180
tggtcgggcc ccgtgctctg cacagggagc tgggctggt ggatgacagc cccacacctg 240
gctctccagg ctccccgccc tcaggcttcc tgctgaactc caagttcccc gagaagggtg 300
agggaacgctt ttccagcagg cctctcgtgg acctcagcct gtcaccacca tctgggctgg 360
actcccccaa tggcagcagc tcgctgtccc ccgagcgcca gggcaacggg gacctgcctt 420
cagtgccagc tgctcggac ttccagccac tgcgctattt ggatggtgtc cccagctcct 480
tccagttctt cctgcccctc g
501

```

<210> 706

<211> 192

<212> DNA

<213> Homo sapiens

<400> 706

```

acacctacac ggatgcgaac ggcgataaag cagcatcacc cagcgagttg acttgtcttc 60
caggttggga atgggaagat gatgcatggt cttatgacat aaatcgagtg gtggatgaga 120
aaggctggga atatggaatc accattcctc ctgatcataa gcccaaatcc tgggttgacg 180
cagagaaaat gt
192

```

<210> 707

<211> 518

<212> DNA

<213> Homo sapiens

<400> 707

```

acagaaatgg tgatttcttt atttcatcca aagatctggg ctatgactat agctatctac 60
aagattcaga cccagactct tttcaagact acattaagtc ctatttggaa caagcgagtc 120
ggatctggte atggtctcctt ggggcggcga tggtaggggc cgtcctcact gccctgctgg 180
cagggcttgt gagcttgctg tgcgtcaca agagaaagca gcttcctgaa gaaaagcagc 240
cactcctcat ggagaaagag gattaccaca gcttgtatca gagccattta taaaaggctt 300
aggcaataga gtagggccaa aaagcctgac ctactctaa ctcaaagtaa tgtccagggt 360
cccagagaat atctgctggt attttctgt aaagaccatt tgcaaaattg taacctata 420
caaagtgtag ccttcttcca actcaggtag aacacacctg tctttgtctt gctgtcttca 480
ctcagccctt ttaacatttt cccctaagcc catatgtc
518

```

<210> 708

<211> 476

<212> DNA

<213> Homo sapiens

<400> 708

```

gtttgtttgt ttgtttttga gacagagtct tgctctgcgc cggggctgga gtgcaatggc 60
gtgaactcag ctactgcaa cctctgcctc cctgggtcaa gctattctcc tgcctcagcc 120
tctgagtag ctgggattac agggccacgc ctggctaatt tttgtatttt tagtagagat 180
ggggtttcac cctgttggtc aggctggtct caaactcctg acctgtgat ctgcccacct 240
cagcctccca aagtgtggg aagacaggc ttagccaccg tgcccggcct ctgtttcctg 300
ttattagtga ttttctctgc caagattgca acaacaaata tgtagaacta cagactgttt 360

```

agaatgctga gactgttcta agaaactttc aaaaacagta gcacttcaag gaatggtcac 420
 tttctatgaa agaaactggg ttgatagcca taatcttatt gctagctgct ttttagc 476

<210> 709
 <211> 417
 <212> DNA
 <213> Homo sapiens

<400> 709
 acccaatata aagaatatca ctgaaagtaa caatcaagaa aattctggaa atgtatgtaa 60
 tatttggtt gctgaatgaa gatataggac tttatggatt gattgttaat ttaactgtta 120
 ggacgatata tttttctgtt tttatttttaa ggaagagcaa agctgtcaaa taagctacta 180
 tatcagaagg gacataaact gaactagtgc cattctgaca cacaggatca gaaactccta 240
 aaatcacata ttcctgaata ctgctatcag caataccact gagactgatt cactgctatg 300
 ttatgggtgat gatttgacat gatccattct ccttaactaa agcttttagct tctgtggttg 360
 tctgagggtt tgggtggccat tctggatcaa ccaagagctc ctgcccaga tacatgt 417

<210> 710
 <211> 479
 <212> DNA
 <213> Homo sapiens

<400> 710
 acatgtgaag agtctctgat gtgatgattt tcagctggaa ttatttttga tcaaatgaat 60
 ctggagaccg attcattgtg agcacctgaa taaaatgaaa actttgtttc cccttggtaa 120
 ctggttggtt ggtttctgtt cactggctct ctacatttgc caggattctt tggggaggca 180
 gtcacaggag tgaggtgcag ttgcttttcc cacgagttag gggaactcct gctgcctgaa 240
 cacaacaac cctgacatgt tcccttctcc aagaggagat gtgatgacaa ttgtcttttg 300
 gcacaattga actctagaaa ctccattttt gtttttccag aggtctgaat cccaaataac 360
 agaattttgt gcagtaggga ccaggagccc tagtaaggat ggggtggcct ggtggccagc 420
 aatgctcact attactgctc agagagaggg ggccagtcac gggaagaggc tagatttcg 479

<210> 711
 <211> 515
 <212> DNA
 <213> Homo sapiens

<400> 711
 gacgttgaca ggtctggtac catgaattcc tatgaaatgc ggaaggcatt agaagaagca 60
 ggtttcaaga tgccctgtca actccaccaa gtcacgttg ctcggtttgc agatgaccag 120
 ctcatcatcg attttgataa ttttgttcgg tgtttggttc ggctggaaac gctattcaag 180
 atatttaagc agctggatcc cgagaatact ggaacaatag agctcgacct tatctcttgg 240
 ctctgtttct cagtactttg aagttataac taatctgcct gaagacttct catgatggaa 300
 aatcagccaa ggactaagct tccatagaaa tacactttgt atctggacct caaaattatg 360
 ggaacattta cttaaacgga tgatcatagc tgaaaataat gatactgtca atttgagata 420
 gcagaagttt cacacatcaa agtaaaagat ttgcatatca ttatactaaa tgcaaatgag 480
 tcgcttaacc cttgacaagg tcaaagaaag cttta 515

<210> 712
 <211> 101
 <212> DNA
 <213> Homo sapiens

<400> 712
 cggatccact agtaacggcc gccagtgtgc tggaattcgg cttcgagcgg ccgcccgggc 60
 aggttttttt tttttttttt tttttttttt caggaaataa a 101

<210> 713
 <211> 325
 <212> DNA
 <213> Homo sapiens

WO 01/79556

<400> 713
 acgacgtgtc cgtcagcacc tcagggggcca ggaactccgg ggtcccacag aatgtgctgg 60
 tccgggtccc atagcccatc ccctccttgc agaggccaaa gtctgcgatc ttgacgtagc 120
 cctcgggtgtc caggagcaaa ttgtccaact tcaggtccct gtagacgac ttgtgttcgt 180
 gaagaaactg taggcccagc accacgcagg cggaataaaa gatggcacgg ggctcagaga 240
 acacgtcgct gtggatgtgc agcatcaggt cccacccggc cgagtacctg ccccgggcgg 300
 ccgctcgaaa gccgaattcc agcac 325

<210> 714
 <211> 341
 <212> DNA
 <213> Homo sapiens

<400> 714
 actgtcctga gtggtttggg aggtgggtag ccgctgatac agggacaggc agatgtgcag 60
 acacttacca ccctgggtcca ccgatccac cccatgcttc cacctcccag agctcttgag 120
 ataagacctt aagaaggatc cttgggcttg cattaacc acccttctgt ccgtggagggt 180
 ctaacaggac ccaatagttg ttactacaaa agtgcttttg caaatagggc aagttagaag 240
 aaggaggtaa tatgaatatt ctttagaaaa actcaaatcc atcggcttat caataccaa 300
 agtctgaggc taccgaaggc acaatttggg ccatggaatg c 341

<210> 715
 <211> 456
 <212> DNA
 <213> Homo sapiens

<400> 715
 cttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
 tttttttttt tttttttttt tttttttttt tttttttttt tttttggggg gaaattaaag 120
 ggggggggacc ccgggggtcaa cccggaaaat tcggaccggg acctggaggg gtaccaattt 180
 ttcctaaaag gaagggaatt aaaacttggg gaaaaaaaagg gaaaaagtgg ttcctgggga 240
 aaaatgttat cccctcaaaa atccaaaaaa aaaaaaaacc ggaaaaaaa aagggaaaaac 300
 ccgggggggccc caaagaggga gccaaaccaa attaatggg gtgggcccac cgcccccttt 360
 caaaaggga aaactgttgg gccaatgaa ttaaaaaaac ccccaacccc ccgggaaaaag 420
 ggggtttttt tttgggcccc aaggggggtt tttttt 456

<210> 716
 <211> 356
 <212> DNA
 <213> Homo sapiens

<400> 716
 tggcggccgc cctggcaggc acatgtaaaa tcttactgca gttttatgtt tttaatagtc 60
 aaaaattaat gtataatctt gatgatgtgt ataaatcatc ggggtgccctt tgggggtgaa 120
 aaatgggttc ttgagcatca ttgtctaagt attccatcac aaatttgta taaagccaaa 180
 ctccattga aagtgtcact ttttgctaag taggaaatcg ttttgattaa agcatcaagg 240
 aagcatatat aaagttaa gaaaatccat ggggaagtgc taaatcgcaa aacttggcac 300
 ttatttacag tattttgaaa aataacacca ccggtattca aacctaccta ggaata 356

<210> 717
 <211> 380
 <212> DNA
 <213> Homo sapiens

<400> 717
 gcgtcgtccg caaactgtgg gttactttac cctgcgggat tcttgcatgt attcgagtgc 60
 tgttggaagt gtaatctgct tggggaaacg agtacctcat gagagaaggg aggataaagg 120
 tccgtggcctt acctgcttct ttgggtgatga tcagggaagc ttatatattga gggtttaagt 180
 gcttaagatt tatattcttt actgctttgg gtggatactg gtgggaaaga agaaaaaaga 240
 catctagagg aagccctata ttataaatct ggggtggcaag tctggatctg cgggagtatc 300

tttttgttga tcaaagttgt gcagtcctctt caagccgagt caaaaaaaca tgccatggag 360
 ttgttctgct ccacctgttc 380

<210> 718
 <211> 278
 <212> DNA
 <213> Homo sapiens

<400> 718
 atcagctggt cacaccatca tggccaagaa aggccaaaat agccatagga cttctagaat 60
 ttgtggaaga tgttttccat ggcccctacg gaaatttcct catgtgcgat actagtgcc 120
 aaaacctagg atataatgat aagtatgatt tgaaaatggg ggatatgaga aaaattgtgc 180
 cagagacaaa cctgaaagaa cttattaagg atcgctactg tgagtctgac ttggactgtg 240
 tctatggcac agattgtaga actagctgtg atcagagt 278

<210> 719
 <211> 192
 <212> DNA
 <213> Homo sapiens

<400> 719
 acattttctc tgctgcaacc caagatttgg gcttatgac aggaggaatg gtgattccat 60
 attcccagcc tttctcatcc accactcgag gtatgtgggtg agaccatgca tcatcttgcc 120
 attcccaacc tggaggacaa gtcaactcgc tgggtgatgc tgctttatcg ccgttcgc 180
 ccgtgtaggt gt 192

<210> 720
 <211> 211
 <212> DNA
 <213> Homo sapiens

<400> 720
 cgcgtccgct ctgctattta aggagacaac cctatgtgac cagaaggcct gctgtaatca 60
 gtgtgactac tgtgggtcag cttatattca gataagctgt ttcatttttt attattttct 120
 atgttaactt ttaaaaatca aaatgatgaa atcccaaac attttgaaat taaaaataaa 180
 tttcttcttc tgcttttttc ttgtaaaaa a 211

<210> 721
 <211> 238
 <212> DNA
 <213> Homo sapiens

<400> 721
 ctcaggaacg agcggtcatt ctttctgacc ttggtcacgg cagtctgcat actcttcaag 60
 gagctggact ttttcaaacc cagagttgga ccaaaatctt tgcttgagaga ttccgatttt 120
 tgtccaacca atgagtgaac cttgctttca tctggtacaa ggtocatgct cttcgaggct 180
 ttcaaattaa ttgattcagg ctgcctggcc ggtgtcacag atctgaagtt gatgtgct 238

<210> 722
 <211> 172
 <212> DNA
 <213> Homo sapiens

<400> 722
 atttggccct cgaggccaag aattcggcac gaggggccgc ttttattact gcctgaaacc 60
 tcttcctttt tgtctccctc acaagtaaga tgagcacacc cagtctcggt cccaagctct 120
 aattcaggct gaataatcct cttctcaggg gcacacatca cttctctct tg 172

<210> 723
 <211> 321
 <212> DNA

WO 01/79556

<213> Homo sapiens

```

<400> 723
gcagagtgtg gccacagctc cttttatggc caagccttgt ttctccagtt tcagtttttc 60
ttgggctgtt tgcaaatttg ttctgcagtt aaaaggggat ttgccagctg ggatggggga 120
attgggaggc agatggggct tccaggagcg aggatagggt cgttggcctc aggtgccgct 180
ctccagttag gagtatttta ggcacctcgt tccttattgt caggtttaac ttcatttgtt 240
ctccacttt ataccttagt gaattttag atgtgacaag gctttcgag ttatatagct 300
ttccagatc agtatcgagc g

```

<210> 724

<211> 216

<212> DNA

<213> Homo sapiens

```

<400> 724
acccgagcta tcagctggtg tagccagtag gcaagaagaa tggagaactg caaagggaga 60
agaagaaata aagacttaca ggtcagaagg aaaagaaaac acttaactgt tccaaaagag 120
aataaaatac ccactgtctc aaagaatcat gctcatgagc attttctgga tcttgagaa 180
tccaaaaagc aacagacaaa tcaacacaat tatcgt 216

```

<210> 725

<211> 237

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(237)

<223> n = A,T,C or G

```

<400> 725
actttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
ttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttngg gggggggggt tttttttttt ttttaggggg ggggaggggg ggggtttttt 180
tttaaaaaaa aaaaaagggg gttttttttt tttaaaaaaa aaaatttttt tttttt 237

```

<210> 726

<211> 405

<212> DNA

<213> Homo sapiens

```

<400> 726
cctccactgc tttggettgt ttcgtttag gctgctcttc tgtctgtgac tcaatctcta 60
attctcgctt tgccacataa tcccaagtga gaggatcatc tgtgtgtaga gcctgaagg 120
catcacaaat ctctttttgt agatctttgg caaagtcaaa tagctgtgca atcgaaagca 180
gtgacacgtg aaattctgca cctttaatta tgcttacaga atttttgtag atgatccatg 240
ccaactcgcc cttaaggatt tcttcagaat aatcaggatt ctccacatcc atactggctt 300
tttcaaattc ttccttctcc ttcctcagtt tttcagcatg catcagctcc atcctaaagt 360
attcttataa agttttgggc actctgggatg aaagcgagtg gcgcg 405

```

<210> 727

<211> 480

<212> DNA

<213> Homo sapiens

```

<400> 727
actttttcct ctggcacagt aactgettcc cattgatgat catcattatc tccagcaatg 60
taaaatgaga gagtctgact cccaagatta aaatcaatcc aaaattcctc aagtttttca 120
tctgatggtg tttgcagctc atatttatca agaaatgctg ataaacaagg aaatgtaaag 180
acccttcttt tgtctccaag catgccattt acaagggtga gaaatatcct gcaatctgtt 240

```

```

tcaaattcag agtccttaat tcttttaaat gccttagcaa taaaatccat tgaaaaccac 300
tgatgtgcca gttcttgtct ttgtttttct ggggtcattc tacacaaagc ttctacaatg 360
cctacctgta agtcataatc tccagcatct aaaatccttt cttccatact actcatgaga 420
attaacattt cttggtttga gagtattttt cgggcatctt gaggcatttt gtctaggaat 480

```

<210> 728

<211> 371

<212> DNA

<213> Homo sapiens

<400> 728

```

ctcttttagga gtgattttgt cagcatagct cctcaagtat agttcctcaa taattgatat 60
gtgaactaaa gcaacgagtt actgactgcc catacgcccc tcataaatga tggtagcaag 120
gatatggctt agacagtttt attcaaaaag agagaaattg ggaggcacc agcaaact 180
ggctataaac atttctgaat tccagtcaga tatgtgttga tgatttcttg ataaggagct 240
cagtcttatt ctctgggagt tctctgaggt tcttgctct gccctctgag tcatccttcc 300
ttttgcataa aaactggcct gtgggctctg tgtgcagcca agtagccttc ttatcctgct 360
tcgtgcccat g 371

```

<210> 729

<211> 200

<212> DNA

<213> Homo sapiens

<400> 729

```

acaagcttta tttttttttt tttttttttt tgttgggtgt gttttttttt ttttttaaaa 60
gtcaaaattg gttttattgc cagccacata tttagtataa aaagaagggc acaaattggct 120
cagtgttgtt ttttaaaaaa atccagggtg tgcagggtgt tctatttaca tttgggagaa 180
gagcttttcc cacatcaggc 200

```

<210> 730

<211> 370

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(370)

<223> n = A,T,C or G

<400> 730

```

taactagaaa taactttgca aggagagcca aagctaagac ccccgaaacc agacgagcta 60
cctaagaaca gctaaaagag cacacccgtc tatgtagcaa aatagtggga agatttatag 120
gtagaggcga canacctacc gagcctggtg atagctggtt gtccaagata gaatcttagt 180
tcaactttaa atttgccac agaaccctct aaatccctt gttaaatttaa ctgttagtcc 240
aaagaggaac agctcttttg aactaggaa aaaaccttgt agagagagta aaaaatttaa 300
cacccatagt aggcctaaaa gcagccacca attaagaaag cgttcaagct caacacccac 360
tacctaaaaa 370

```

<210> 731

<211> 321

<212> DNA

<213> Homo sapiens

<400> 731

```

acactcgtct tgaataggct aaaggttggt cttcagggtg tggcagtc aa ggctccaggg 60
tttggtgaca atagaaagaa ccagcttaaa gatattggcta ttgctactgg tgggtgcagt 120
tttgagaag agggattgac cctgaatctt gaagacgttc agcctcatga cttaggaaaa 180
gttgagagag tcattgtgac caaagacgat gccatgctct taaaaggaaa aggtgacaa 240
gctcaaattg aaaaacgtat tcaagaaatc attgagcagt tagatgtcac aactagtga 300

```

tatgaaaggg aaaactgaat g

321

<210> 732

<211> 227

<212> DNA

<213> Homo sapiens

<400> 732

```

acttagacct ggtatggaga cccacgggg tgggaaaggg ctccctctg ccttgacaat 60
gtccttgaat atccagccca gtaagaatat tttttacatc atgactttag ataacacgtt 120
tataactgaa gcaaaagctc gaagagacaa cacttaactg tactacagga gttacacccc 180
atgcattttt aattccaatt ttgtgtgtgt gtgtgtgtgt gtgtgtg          227

```

<210> 733

<211> 396

<212> DNA

<213> Homo sapiens

<400> 733

```

tatttgcgga gttgatttct gcgattaaga ggacgttggc tcgccttctc gtgatcattg 60
tgagcctggg ctatggcatt gagaagcctc gtttaggaac agtcatgcac cgggtgatcg 120
gactggggct tctatactta atctttgcag ctgttgaagg cgtgatgaga gtcattgggg 180
gttctaacca tttagctgtt gttcttgatg acattatttt agcagttatt gactccattt 240
ttgtgtgggt cattttttatt agtttggcac atactatgaa gaccctaagg ctttaaaaag 300
aacactggga aattttttatt atatagacat ttttaaaaat actctgaact ttgctgcgct 360
ggctttctat tagtgtttaa tgggggtggga caactt          396

```

<210> 734

<211> 243

<212> DNA

<213> Homo sapiens

<400> 734

```

gggcctgtga aaggaaaggt cattcttcct gacctcggcc actgcagtct gcagactctc 60
caaggagctg gacttttgca aaccagagt tggaccaaaa tctttgcttg gagattccga 120
ttttgtcca gccaatgagt gaacctttgc tttcatctgg cacaaggtcc atgctcttcg 180
aggctttcaa attaattgat tcaggctgcc tggccgggtg cacagatctg aagttgatgt 240
gct          243

```

<210> 735

<211> 479

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(479)

<223> n = A,T,C or G

<400> 735

```

cggcaagcgc gcagtgtcga ctccccggtc tatgccaggc gcatctcagc taatccaaat 60
gtaaatgaga aacttagaaa agatttgcca attccaaatc aacatattta gagaaaattg 120
gaaaaggaga agcttactac agctttattt gaggactttt taaagaacgc tgggttctat 180
ctgtgagctg caaatcttgg agcaaaaacc agagacattg ccagagcaaa caagaacaga 240
gatacaaatg gagaactggg caaaagacat aaccacagct tatcttgaac aagaaactac 300
ggggataaat aaaagtacct cggccgcccc ggcaggctact ttaccagcag accacagttt 360
tgccctggct agaccaaccc tcagaacaaa atcatcattc cttggattta tatttgnatc 420
tgagatagta aacaagatgg ctggccaggg taacatggca ccttaactta ttttttaat 479

```

<210> 736

<211> 380

<212> DNA

<213> Homo sapiens

<400> 736

```

acccttcagc atccattct actgcaacgt ggccaatgcc ttctctgtag ctctcagat 60
ctactgggtc tgtctgctgt gcaggaaggc agtccggctc ttgacactc cccaagccaa 120
aaaggatggc taaatgctcc tgggagtcag gcgcagcctc acaccagctg cctcctccac 180
tcagcattcc atggaccaa ttgtgccctg ggtagcctca gactttgggt attgataagc 240
cgatggattt gagtttttct aaagaatatt catattacct ccttcttcta acttgcccta 300
tttgcaaaag cacttttgta gtaacaacta ttgggtcctg ttagacctcc acggacagca 360
aagtggtttt aatgcaagcc

```

<210> 737

<211> 335

<212> DNA

<213> Homo sapiens

<400> 737

```

actattaaat gttgcgcgtt gtgggataga agacttacaa atctgtctgt tccacagcct 60
tcctggagtg ggggtgtctat caaccctgcc cagagccata gaacacatgc tgtggcttta 120
acaatccaag tttggaagtt aacgctaatt agaaaggtca caaacctgga aacggcggcc 180
actcactctg attctcatca ctccacaact gaacaatggg ggaaaagaga ctaatggaca 240
gtaattaatg ttccagcttg aaatacaaga accacaaaca ggacacttac taagagacag 300
aggttagatg ttaccagagg ccatcaatag atccc

```

<210> 738

<211> 525

<212> DNA

<213> Homo sapiens

<400> 738

```

cctccactgc tttggcttgt ttcgttgtag gctgctcttc tgtctgtgac tcaatctcta 60
attctcgcct tgccacataa tcccaagtga gaggatcatc tgtgtgtaga gcctgaaggt 120
catcacaat ctctttttgt agatctttgg caaagtcaaa tagctgtgca atcgaaagca 180
gtgacacgtg aaattctgca cctttaatta tgcttacaga atttttgtag atgatccatg 240
ccaactcgcc cttaaggatt tcttcagaat aatcaggatt ctccacatcc atactggctt 300
tttcaaattc ttccttctcc ttctcagtt ttccagcatg catcagctcc atcctaaagt 360
attctttata aagttttggg cactctggat gaaagcgag tgcggaaga aatagttgcc 420
ttgcgctttc tgaagacaat cgatcttcca ttcccatgtt ggctgccata atccacaaag 480
ctggtttgtt ggaatgaatc gccaacatgg cagagaatac cttgc

```

<210> 739

<211> 418

<212> DNA

<213> Homo sapiens

<400> 739

```

gcgtccgcgt tggtcgggat ggtctagtct atgcagtcga gttctccac cgctctggcc 60
gtgacctcat taacttggcc aagaagagga ccaacatcat tcctgtgatc gaggatgctc 120
gacaccaca caaataccgc atgctcatcg caatggtgga tgtgatcttt gctgatgtgg 180
cccagccaga ccagaccggg attgtggccc tgaatgccca cacttctctg cgtaatggag 240
gacactttgt gatttccatt aaggccaact gcattgactc cacagcctca gccgaggccg 300
tgtttgcttc cgaagtgaag aagatgcaac aggagaacat gaagccgcag gagcagttga 360
cccttgagcc atatgaaaga gaccattgcc gtggctgtgg tgagtgtaca ggccaccc 418

```

<210> 740

<211> 574

<212> DNA

<213> Homo sapiens

<400> 740

```

atgggttgtt cccgtgctct tctcatgata gtgagtaagt ctcataagaa ctgatggttt 60
tcaaatgggg agtttccctg cacaagcttt ctgtctgccc actatgtgag atataccttt 120
caccttccgc catgattgtg aggcctcccc agccacgtgg aactgtgagt ccattaaacc 180
tctttttctt tataaattac ccactctcgg atatgtcttt ataagcagtg tgaaaacaga 240
ctaatacaga gacccagcgg gtggagacct ccagctcctc atccctcaag atacaggaag 300
tgagctgttc aggccgcctg ttccccgacg aggtaagttc caggggacag aaacaagctc 360
tctgaagact ctcattaatc tttgctgtcc gaagctacct tctccatctc ctgctcacct 420
gggaggactc cctggaggaa gccaggaaaag gtgaaaatcc atgtatctct tcacatttgg 480
agaacaaagg gaattcaaga acaattttat ggattttctt tgttttttat taattaagac 540
atgctgtgtt taaattagac aataattttt taaa 574

```

<210> 741

<211> 319

<212> DNA

<213> Homo sapiens

<400> 741

```

atgcatacat agaggtatgg ttgaaaaaga tgaacagtga gatacccagg atatcagatg 60
caggaaccca agcattggcc aatgagactg cagagctggg gtcacagtgg aaattatttg 120
caaaggtctt gaaagtctct ctctctctct ctctctctct ctctctctga cacacacaca 180
cacacacaca cacacacaca cacacctgtc ttcatcttat aaaacaaact gatgggatcc 240
aacttttaga acataatgaa cacggtatgg aggacagaca tgtgcatatc ctgtccgctt 300
taagaagcct agaatgggt 319

```

<210> 742

<211> 424

<212> DNA

<213> Homo sapiens

<400> 742

```

ccacgcgtcc gccattacct atgtccttat tatccgcttc tgtcccga caaagtagct 60
cacttaggcg tatgaccaca tgcattatga tagtttccca ccaccatatt gaataataaa 120
agctttggcc aaagcttttt taaagtagga gaaacattgg gatgtatatg ttttgcattg 180
ccatttgatt tcaaattaat caggaagaat tagtgatttt aatgagcagt aaagtgggtgc 240
aataaagcag aaagaaaaat gttcagccag aagtgaaga ctagtaaaaa aagaaaaaaa 300
aatatttgta catatgatct aatttagaaa gtccagaatt ggcttcatac agaaaagtga 360
ttactttcat tttaaaaatt actttaaaat tttggtaaag tttctgttag gcttctggtc 420
taca 424

```

<210> 743

<211> 349

<212> DNA

<213> Homo sapiens

<400> 743

```

actgtcctga gtggtttggg aggtgggtag ccgctgatac ggggacaggc agatgtgcag 60
acacttacca ccctgggtcca ccgatccac cccatgcttc cacctccag agctcttgag 120
ataagacctt aagaaggatc cttgggcttg cattaaaacc actttgctgt ccgtggaggt 180
ctaacaggac ccaatagtgt ttactacaaa agtgcttttg caaatagggc aagttagaag 240
aaggaggtaa tatgaatatt ctttagaaaa actcaaacc atcggttat caatacccaa 300
agtctgaggc taccaggggc acaatttggg ccatggaatg ctgagtga 349

```

<210> 744

<211> 385

<212> DNA

<213> Homo sapiens

<400> 744

```

ggccgcccgg gcaggtacat aatcgttttg tggagtcggc acagttcagg ttatggaggc 60
acgtaattca ccaaagtga aaaaaggcaa aggaaaacac gctgcattgt agaataaggc 120
attcaaatgt gctgttaacg ttttaaggcag ctaatggcca aaacaggcaa gtcaagaaaa 180

```

```

gtggtctggt ttggaggtga ttttgcattt agaaggcatt ctcttctcgt gacctcaaag 240
actgagcact gtagagcatg tcttcttcct caaggccaat gatacttcag ataccagatg 300
gtttcatttt tcaattgcgg tccaaagaaa ggggtgagtt ggggccaaga attgcaatca 360
ggccaaaaga gatagcagca aactg                                     385

```

<210> 745

<211> 521

<212> DNA

<213> Homo sapiens

<400> 745

```

gcgacggagc ctggctgtgg gcccatcttt ggaaaaaaga tctgggaatg attgtctagc 60
ctccagcctc aacttacttg atgcttgaga gactcaaagc cccgtgggtca gctgccctgc 120
aaagaaagta ttttgacctt ggcatcttga cagctctcat ctctcccatg gccctgacaa 180
tgctgaatgg gctcctgatt aaggactcaa gccacacctat gctgctgcac cagggttaaca 240
agactgcccc gttagatacc ttcaactacc agagctgctt tatgcaaagt gtctttgacc 300
attccctga gatcttattt atccaccgga cctataaccc aaggggtaag gtcttatata 360
ccttcctggt ggaaggacct cgggtgcagc tggagggtca tcttgcccga gcagtctact 420
ttgccatccc tgccaaggag gacactgaag gcctggcccc gatgttccaa gtatttaaga 480
agtttaatcc agcatgggag agagtctgta cctgcccggg c                                     521

```

<210> 746

<211> 862

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(862)

<223> n = A,T,C or G

<400> 746

```

natgtacagt cacggggcag agcttgcata gggatccagg tgttactagt cttactctgg 60
agctgggtcca actcagtttc atggcacaga actagattag gtctccactg cgcagtctgt 120
tttactgctt agggaaagcc agcttttcta cccacacacg tttagtttga agagtatcta 180
tttttgaggg gttctttggg aggttgggca ggcttctttg gatcccagat acatttagag 240
ctttttgcat taagtgtgag gaaaataact tctctttgat gatgttgata caccatgttg 300
gcaccctggg gcacagcggg ttagctgggg agattccatg agaatgaacc caaactactc 360
ttctttgcta gggtccttta cccacacaga ggtgagcctt tcaggttctt cattttgctt 420
agtttcttcc cttgtccttg gcatttaaga ggcacccatg tgtagccag ccaaagcccc 480
ctgaaggagc tggctgcttt aaaggattta cttgggagga tgcataatgg ctttgccttc 540
tgcagacttc atttatttta atctttttat ggctcctttc tcttgcttta aaacaggatt 600
ataagcacac agcaggtaact gacacctgaa gtcttactaa attcctgtcc tcaggccatc 660
ctttttctcc tgaaacctgg actccaattt tcaatgacgt ttttgttttt ctctttcaag 720
cctaactatg ggacagcttt acgagaagga cttctgaggg ccattgctgg gctaggtgca 780
ccgtaactgc ttgtgtatct tgtaaatagc cagccatttt cagttattat accagaacct 840
cttcacatag acctattagn nn                                     862

```

<210> 747

<211> 862

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(862)

<223> n = A,T,C or G

<400> 747

```

natgtacagt cacggggcag agcttgcata gggatccagg tgttactagt cttactctgg 60
agctgggtcca actcagtttc atggcacaga actagattag gtctccactg cgcagtctgt 120

```

```

tttactgctt agggaaagcc agcttttcta cccacacacg tttagtttga agagtatcta 180
tttttgagg gttcttttggg aggttgggca ggcttctttg gatcccagat acatttagag 240
ctttttgcat taagtgtgag gaaaataact tctctttgat gatgttgata caccatgttg 300
gcaccctggg gcacagcggg ttagctgggg agattccatg agaatgaacc caaactactc 360
ttctttgcta gggtccttta cccacacaga ggtgagcctt tcaggttctt ctttttgctt 420
agtttcttcc cttgtccttg gcatttaaga ggcattccatg tgttagccag ccaaagcccc 480
ctgaaggagc tggctgcttt aaaggattta cttgggagga tgtcaaattg ctttgccttc 540
tgcagacttc atttatttta atctttttat ggctcctttc tcttgcttta aaacaggatt 600
ataagcacac agcaggtact gacacctgaa gtcttactaa attcctgtcc tcaggccatc 660
ctttttctcc tgaaacctgg actccaattt tcaatgacgt ttttgttttt ctctttcaag 720
cctaactatg ggacagcttt acgagaagga cttctgaggg ccattgctgg gctaggtgca 780
ccgtaactgc ttgtgtatct tgtaaatagc cagccatttt cagttattat accagaacct 840
cttcacatag acctattagn nn 862

```

<210> 748

<211> 862

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(862)

<223> n = A,T,C or G

<400> 748

```

natgtacagt cacggggcag agcttgcata gggatccagg tgttactagt cttactctgg 60
agctgggtcca actcagtttc atggcacaga actagattag gtctccactg cgcagtctgt 120
tttactgctt agggaaagcc agcttttcta cccacacacg tttagtttga agagtatcta 180
tttttgagg gttcttttggg aggttgggca ggcttctttg gatcccagat acatttagag 240
ctttttgcat taagtgtgag gaaaataact tctctttgat gatgttgata caccatgttg 300
gcaccctggg gcacagcggg ttagctgggg agattccatg agaatgaacc caaactactc 360
ttctttgcta gggtccttta cccacacaga ggtgagcctt tcaggttctt ctttttgctt 420
agtttcttcc cttgtccttg gcatttaaga ggcattccatg tgttagccag ccaaagcccc 480
ctgaaggagc tggctgcttt aaaggattta cttgggagga tgtcaaattg ctttgccttc 540
tgcagacttc atttatttta atctttttat ggctcctttc tcttgcttta aaacaggatt 600
ataagcacac agcaggtact gacacctgaa gtcttactaa attcctgtcc tcaggccatc 660
ctttttctcc tgaaacctgg actccaattt tcaatgacgt ttttgttttt ctctttcaag 720
cctaactatg ggacagcttt acgagaagga cttctgaggg ccattgctgg gctaggtgca 780
ccgtaactgc ttgtgtatct tgtaaatagc cagccatttt cagttattat accagaacct 840
cttcacatag acctattagn nn 862

```

<210> 749

<211> 775

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(775)

<223> n = A,T,C or G

<400> 749

```

nncgtcgcaa actactcttc tttgctaggg tcctttaccc acacagaggt gagcctttca 60
ggttcttcoat tttgcttagt ttctttcctt gtccttgcca ttttaaggagc atccatgtgt 120
tagccagcca aagccccctg aaggagctgg ctgctttaaa ggatttactt gggaggatgt 180
caaattggctt tgccttctgc agacttcatt tattttaatc tttttatggc tcctttctct 240
tgctttaaaa caggattata agcacacagc aggtactgac acctgaagtc ttactaaatt 300
cctgtcctca ggccatcctt tttctcctga aaacctggact ccaattttca atgacgtttt 360
tgtttttctc tttcaagcct aactatggga cagcttttac agaaggaaaa agatgaagat 420
ggattcttat atgtggccta cagcggagag aacacttttg gcttctgagg gccattgtg 480
ggctaggtgac accgtaactg cttgtgtatc ttgtaaatag ccagccattt tcagttatta 540

```



```
taccagaacc tcttcacata gaccatttag tgcatttcta actggattta tttcttaata 600
tatgggaagg tttggttgcc ttagactagt aaattatcat acagagttaa tttagagttt 660
tcttttggtg catggtctca tgctgtattc tcaggaaaat tgttctcggg aaatcatttg 720
aatgatttct atatgaagga ggaggtggga taagggaagg aggggtgatta tcnnn 775
```

<210> 750

<211> 927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(927)

<223> n = A,T,C or G

<400> 750

```
nnnnnnccct aggtgtttca cacccttggt aggcggcccc ttactttccc tccggttttt 60
ccccgcccag gtgctttccc gggtagacca ggccagcatg gttaacagcc attcttacag 120
gaaccaaaca ctaccgggtg cctataatta gaagtctcac tgagcacata ggccgccaag 180
accgggcaac ctgaagtgtg tgctcccagg tcagtggaga atggacctgc tgcaccgata 240
cccagtatag gtcgtgataa aatgcccttg acacaggctt gtaaagtacac caagcttttc 300
tgaaatgaca gccattgaac tcctagggtc tgagacctgt gctgcttggt gcacccagt 360
tgagtcatga aaggccctct gtggtgggca tcacaggtct ccttgagttt attgctgtgc 420
aaagtggagg actttagttt ctttttcaac atcaagctgt gtcctctccc agctctgtct 480
tggcagctgt ccttggaacc gattttcctt ttcttgaggt ttccctcatg tgagctcgac 540
tctggttctt gtctttgcct gtgcttctca ctggaatggg aggagggggg ctcggctttt 600
tgtttgaatt gtctcttctt atctgagccc ttttctgtaa aggagatccc ttttcttacc 660
cttcctcggg catcctggga gctccacttt cctctgtaga atttattcag cctccttagt 720
aaacatggac ttggtcccaa acaggttaacc caactgacca caagaaaagc agcctagatc 780
ctgagcattc agtcctgtc ttcacacaac agacaccacc tcagtcccat caaagcctgt 840
gaagtttccc tacatccacc attgagacat attccagagc agcctctcaa aattgcctta 900
acaggatggg acacgatann nnnnnnn 927
```

<210> 751

<211> 927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(927)

<223> n = A,T,C or G

<400> 751

```
nnnnnnccct aggtgtttca cacccttggt aggcggcccc ttactttccc tccggttttt 60
ccccgcccag gtgctttccc gggtagacca ggccagcatg gttaacagcc attcttacag 120
gaaccaaaca ctaccgggtg cctataatta gaagtctcac tgagcacata ggccgccaag 180
accgggcaac ctgaagtgtg tgctcccagg tcagtggaga atggacctgc tgcaccgata 240
cccagtatag gtcgtgataa aatgcccttg acacaggctt gtaaagtacac caagcttttc 300
tgaaatgaca gccattgaac tcctagggtc tgagacctgt gctgcttggt gcacccagt 360
tgagtcatga aaggccctct gtggtgggca tcacaggtct ccttgagttt attgctgtgc 420
aaagtggagg actttagttt ctttttcaac atcaagctgt gtcctctccc agctctgtct 480
tggcagctgt ccttggaacc gattttcctt ttcttgaggt ttccctcatg tgagctcgac 540
tctggttctt gtctttgcct gtgcttctca ctggaatggg aggagggggg ctcggctttt 600
tgtttgaatt gtctcttctt atctgagccc ttttctgtaa aggagatccc ttttcttacc 660
cttcctcggg catcctggga gctccacttt cctctgtaga atttattcag cctccttagt 720
aaacatggac ttggtcccaa acaggttaacc caactgacca caagaaaagc agcctagatc 780
ctgagcattc agtcctgtc ttcacacaac agacaccacc tcagtcccat caaagcctgt 840
gaagtttccc tacatccacc attgagacat attccagagc agcctctcaa aattgcctta 900
acaggatggg acacgatann nnnnnnn 927
```

<210> 752
 <211> 415
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(415)
 <223> n = A,T,C or G

<400> 752
 nnnnnccgcc cgggcaggta ctccagcctg ggtgacagag cgagaccctg cctctaaaat 60
 aaaaggctgc acaacactca actacgtcag taaaaagaca gggtaagga gcaataagtg 120
 atgcttgac aatcatggga gatacacagg agtcaggctg cctgctcagc gaaccactca 180
 ttccaacatc cagacagcgg tcaaagatac acctgcagat gcccatcagg aaatgtgaat 240
 gagtgagctg aagaggcaat gggggtagtg tcacctgttg caaactagag aatgcttatt 300
 tattttaaag ggggcaacc agctgactat tattgccaag tggcaattca aaccaatac 360
 tgccaagtgt tctgattcta attgaaatca gagaaaaaga aaacctaca aacag 415

<210> 753
 <211> 643
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(643)
 <223> n = A,T,C or G

<400> 753
 nnnnnnggcg gccgaggtag attgaaagcc atgttccctt gtagaaagaa aaatgctgtt 60
 gccttttggg ttgattctat tatctgatgt tttattaatc tctgtgaaat aattgtgtaa 120
 attaatatag agactagttg agaaatggtg gataacatga agaagatacc catttttgca 180
 tagattagat gtgatcaacc tcacactatc atatgaaagt tggctgcatt ggagagacag 240
 gaattaatat taaaaatgtt ttcagttcag attgatatct tacatttcca aatattattt 300
 tcttttgaaat atgtgtgtata agtaatctgc ttttaagtcct atttttaggtt gggtagcagt 360
 gctcgcacct gtaatcccac catTTtggga ggtagagacc aggagtttga gaccagcctg 420
 ggcaacagag tgagacccca tctttataga aaataaaaaa ttagccaggc atgatggcac 480
 gtgcctgtag tccctaactac ttggaggctg agaaggagg atagcttggg cctgggaggt 540
 tgaggctgca gtgagctgtg atcacaccac tgcactacag gctggacaat ggagcaagac 600
 tctatctcta gaacataaaa agacctgttt taaactgatg ann 643

<210> 754
 <211> 530
 <212> DNA
 <213> Homo sapiens

<400> 754
 cctgatggaa gagagggctg tgtgtcacag ggattcccaa gccactaaag cacattccca 60
 ggaccatata atcgggagca tcattgctgt agcatcgaca ttactggcg agaagtctcc 120
 tgacggcttc tctgctgaag accattcctc ctctcccgat gatgtagctg tagccaccag 180
 tgcccaggcc gtagccgtag cgctctccca gaaacacagg cttgccggag tcataacagc 240
 taagcaagtg ctggagcctg gagatactta ttaatgtatc atcatccaca atgactaacc 300
 atgctgtttt gtctgtgcta cgattcagaa atctttccaa aatggcaaat gtctttccac 360
 aatgacctct atctgtatta ggaattccca aatccacagt aggaatggaa ttttcagtat 420
 agtcactata gtattcaatg agacttgctt ggctctccca agtctgctta acaataggtt 480
 ttctgtcacc atgaaatttc ttgcatgttt ttactgcaac aaaaatatcc 530

<210> 755
 <211> 1040
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1040)

<223> n = A,T,C or G

<400> 755

```

gcgtccgccc acgcgtccgg gggccagggc gcgtcggagc cgctgagaaa gcgcagagaa 60
ggcggggccc gtctgaggtc tggcagtcag agacagccgg gcgcccacgg cccgagcgcc 120
cacggcagca ccatgcccgc actcctggag cgccccaagc tttccaacgc catggccagg 180
gcgctgcacc ggcacattat gatggagcgg gagcgcaagc ggcaggggtga gccggggcca 240
tagcaggggg acgcacggcc cagaatggct cctgtacctc aaggctggcc tcaaccacc 300
ggccaaccag cgcgcccgt gccgagcgca gaggaggga ggaatagccc cgttgtgtgtg 360
ggatttaagc gtcctgttcc acgctccaga acccttgaga tgggaaggac cttggagagc 420
acctgataaa gcctttccgt tccctattgc cgcgatgggg agcttgtccc ctcgaggcaa 480
agagcataca ggcgtgttgg gatgactggg ttttgctggt cttcaatctg taacgttgga 540
attgttttca ctaccctgcc tcttcttcat tctgcctgat tctccagagg aagaagaggt 600
ggataagatg atggaacaga agatgaagga agaacaggag agaaggaaga aaaaggagat 660
ggaagagaga atgtcattag aggagaccaa ggaacaaatt ctgaagttgg aggagaagct 720
tttggtctta caggaagaga agcaccagct tttcctgcag ctcaagaaag ttttacctga 780
ggaagaaaaa cggaggcgaa aggaacagag tgacctgacc accctgacat cagctgcata 840
ccagcagagc ctgactgttc acacaggaac tcatctcttc agcatgcagg gggggcacta 900
aagaaaccac cagatggaac cggccttctt ggaggtcaca gcctccatt tcagcatcat 960
gaagcccttc tccctttcta gggagccctg gaggacacaa ttgccaggc accctcatgg 1020
cagctgacag annnnnnnnn 1040

```

<210> 756

<211> 1873

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1873)

<223> n = A,T,C or G

<400> 756

```

nnnnnnnnga tcgctcagga ggacatcctg tcttcattta tcttggtca cttctcttca 60
gacttggtga gaagtgcaga gccacaggaa ttgctttcct tccccgcctt tgacatgagg 120
ccttcagtaa agagctacag aacatgagta cattgttata ccacagattt ttcttgcat 180
agggcacagt gttaaatttt ttggaggtaa atatactatt tataatcact atatatagta 240
ggagggggta tgtgtctcag gcttttctga agttgcaaga cttaaagaaa taatccatct 300
gcatcccaag tcctatttta taaggatatt cataaaaaatt ccatggtgaa tccttgtctg 360
aaataggtcc tcccttccca gtttctgtgt aagtctttgc atttaagaca tccaatcaat 420
aatgaaggaa atttttttct gaatgtaggt ttgagtggag ggcacctctg ctttccctta 480
gcaaccctca tatacctccc tgaccgtta cgctgtgatg gcaactgggg atagaaaaaa 540
aatggggaaa gacaggaatc ctaaaaggga gagttattac tggccacaag ccctgtattc 600
tcaacaggga tgcaaattgg ttcttcagta aggataaaaa aaaatcacaa gcagttgttt 660
gtggccctcc taaggcccac agcacatata gtgtgtctgt gatattccat tttcatggca 720
gggagtgatc aggaagaagg cttoctaggg gactggcgat ttaaaccagt tgagaaacac 780
tgccatcagc aggcagtttc agactcactc aagtgtgtctc ttgacagtca cttctaaatg 840
ggttctaatg tgacaatggc ctccaaaact acagccttcc ctgaagttaa agctgtgacc 900
ttagatttta gaaggacagt ggggctgtac ctagaatagt gggtctcgaa gaatgcggcc 960
tgcagatcct gggagtccca agacccttcc agggaggatc tgtgaggtca actgttgcca 1020
ctgtggcatg aatcaagggt gtggcagcaa acttctagta gttttgatat gtcttgata 1080
gaacaaatag caatggttaa ctattaaatg ttgacctagc cagcgcagtg gctcatgcct 1140
gtaatccag cactttggga ggtgaggcg ggcggatcac ctgaggtcgg gaggttcgagg 1200
ccagcctgac caacatggag aaaccccgtc tcttctaaaa atacaaaatt agctgggcat 1260
ggtggtgcat gcctgtaatt ccagctactc gggaggctga ggcaagagaa tcgcttgaat 1320
ccggtagggt gaggttgtag tgagccgaga tcataccatt gcaactccagc ccaggcaaca 1380

```

```

agagtgaaac cctgtctcaa aaagaaaaaa aaagttgacc ttgagaattt ataatatctt 1440
gagaaaaactg gaagcatgca taaagcccct ctgctgtgca ctgaagtatg ggtgccttga 1500
ggaaaagcag ttacacagtt gagttgcaag ctgaattggc tgtgttcaag gcatgccctt 1560
tagaattgaa agaactagca gattacggtt tttagacttg aatatttggc tgatattttc 1620
tggaatttaa tggaatgagc ctctcacctc aagggaaaca actgatagtg ttgccagtga 1680
taaagctttc aagcaaaaat tggaatttcc gaaaattgta tccacatgag cttattgttg 1740
ggatattaac aagtgatttg ttaagaaatg tttctggaag aattcaagac cattcaggga 1800
cagtgtgtgt ttcaattgcg tgtagtgttc aaggtaaagg cggttagtta aacaaaggaa 1860
aggagacggn nnn 1873

```

<210> 757

<211> 1873

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1873)

<223> n = A,T,C or G

<400> 757

```

nnnnnnnnnga tcgctcagga ggacatcctg tcttcattta tcttggtca cttctcttca 60
gacttgggta gaagtgcaga gccacaggaa ttgctttcct tccccgcctt tgacatgagg 120
ccttcagtaa agagctacag aacatgagta cattgttata ccacagattt ttcttgcatt 180
agggcacagt gttaaatttt ttggaggtaa atatactatt tataatcact atatatagta 240
ggagggggta tgtgtctcag gcttttctga agttgcaaga cttaaagaaa taatccatct 300
gcatcccaag tcctatttta taaggatatt cataaaaatt ccatggtgaa tccttgtctg 360
aaataggtcc tcccttccca gtttctgtgt aagtctttgc atttaagaca tccaatcaat 420
aatgaaggaa atttttttct gaatgtagggt ttgagtggag ggcacctctg ctttccctta 480
gcaacctca tatacctccc tgcaccgtta cgctgtgatg gcaactgggg atagaaaaaa 540
aatggggaaa gacaggaatc ctaaaaggga gaggttattac tggccacaag cctgtattc 600
tcaacaggga tgcaaatggg ttcttcagta aggataaaaa aaaatcacia gcagttgttt 660
gtggccctcc taaggcccac agcacatata gtgtgtctgt gatattccat ttcatggca 720
gggagtgatc aggaagaagg ctctcagggt gactggcgat ttaaaccagt tgagaaacac 780
tgccatcagc aggcagtttc agactcactc aagttgtctc ttgacagtca cttctaaatg 840
ggttctaatt tgacaatggc ctccaaaact acagccttcc ctgaagtta agctgtgacc 900
ttagatttta gaaggacagt ggggctgtac ctagaatagt ggttctcgaa gaatgcggcc 960
tgcatcctc gggagtccca agacccttct agggaggatc tgtgaggta actggtggca 1020
ctgtggcatg aatcaagggt gtggcagcaa acttctagta gttttgatat gtccttgata 1080
gaacaaatag caatgggtta ctattaaatg ttgacctagc cagcgcagtg gctcatgcct 1140
gtaatcccag cactttggga ggctgaggcg ggcgatcac ctgagggtcg gagttcgagg 1200
ccagcctgac caacatggag aaaccccgct tcttctaaaa atacaaaatt agctgggcat 1260
ggtggtgcat gcctgtaatt ccagctactc gggaggctga ggcaagagaa tcgcttgaat 1320
ccggtaggtg gaggttgagc tgagccgaga tcataccatt gcaactccag ccaggcaaca 1380
agagtgaac cctgtctcaa aaagaaaaaa aaagttgacc ttgagaattt ataatatctt 1440
gagaaaaactg gaagcatgca taaagcccct ctgctgtgca ctgaagtatg ggtgccttga 1500
ggaaaagcag ttacacagtt gagttgcaag ctgaattggc tgtgttcaag gcatgccctt 1560
tagaattgaa agaactagca gattacggtt tttagacttg aatatttggc tgatattttc 1620
tggaatttaa tggaatgagc ctctcacctc aagggaaaca actgatagtg ttgccagtga 1680
taaagctttc aagcaaaaat tggaatttcc gaaaattgta tccacatgag cttattgttg 1740
ggatattaac aagtgatttg ttaagaaatg tttctggaag aattcaagac cattcaggga 1800
cagtgtgtgt ttcaattgcg tgtagtgttc aaggtaaagg cggttagtta aacaaaggaa 1860
aggagacggn nnn 1873

```

<210> 758

<211> 2293

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2293)

<223> n = A,T,C or G

<400> 758

```

nnnnnnnnnn nnnnnnnnaca acgtgtaacg tcactcttta ttatgaaaat aaaatggtga 60
tcatgagtgg ggcgaatata cagagcaact ggctctttgg gtggttatgt cacgtggcct 120
gcaagttaac gttggcttcc tggtcagcca ggcccttaggc tggtgaaaag aggaaacaaa 180
gaggatgtga acgaagacaa agaagacatc ggagggctcc ttttaggaga tttgcttgaa 240
ggcctccgcg gggatcttgc cctcggctcg gagcatagtg aaggcctggc cagctctagt 300
gtagttccac tcattgtcct gaaggcactt ctgagaccac tccagtttca tcccagactg 360
ggcagagaaa gcctgcacca tttcctgctg ctctctggag agggagggct cagagctgga 420
ggagagtgtg gacactggga tggagaaggc actctgagtc tcttgggggc tggcatccct 480
cacaacacgc tcgtcatcca cgatgcacag actggaactg ctgccagggg tagcaatgaa 540
ggtccgggtg aaggcgagaa cagaaccctg agactgtcct tccacttcct tgaatacccc 600
attgacagaa aagcagagca tcctttccgt ctggcaccac acgtccacca ggatggagct 660
gaggtcatgc tgagttttgg gcaacgcact gaggggagtcc acaatgtcac gttttgtgcg 720
cctcagcagt tcccccttca ggtaggggtc cttaggtgtt tccatattcc tgctactc 780
aaagtacttg cacaagctgc tcggggctga gtccttgggg tcgaagggaa tagccaagga 840
gaagcaggcc tcactgtggt aagcaccgag gagaccctgt cgatctccag agtcatagat 900
cgagtaatac tgcctgcagga attgcaggac taaatgcttt agggctctcag atccagtaaa 960
gttttcttgg cagggtttca ttgtctcaga gctgtcaatg tcaacaatca ctggtgcgga 1020
taactctcgg ccgtccaggc gtaacaactt ggggaaacaa tcccggatgg cacttacata 1080
ggcggactgg tccgagaagg tgctgcacaa cgggttccct tctagccata gctcttcgag 1140
cttcagccct ttcaccttgc ccaactccca cgccgactcc agcttatttt tggagagatt 1200
cagggtcttg actttgggag ccttctctgt aatgtcagaa aggccatcca gctggtacag 1260
cttgttgttg cacaagttca aagacaacag ctccaggaaa tttctttcaa tgatcttcag 1320
ggtggcagcc atgcagtttc ttcgattcag gattatatca atgtcacggc ccatcaagtc 1380
tgggtcaaag cgggatttct ggagatcaag agcttgctgg gagacattgt accgtttgtt 1440
catggtcagc ttttagcatct ccatttggcc tggtctcaac ttattcttca cagagtaggg 1500
cgcagtagaa tgattgacaa atatacatat ctttttggtt tcatcatcat aaatcttata 1560
actgacatcc ttcaatgcgg aggcagcgct agcatcctgg acaaagaagc atgccgatt 1620
tcggacgtag tggaaatcaa ccggagtga ggcgtcactg caatggctct ggattgaatt 1680
cattagccat gccttgtcat actttatccc gtaaggaatt gtgaccttaa accagttcct 1740
tgtgtatcca tctgtgtgt tctgactcat ttttctctcc ggagggtttc tatttctcca 1800
cgtggtaata cggatttctgt ctccactatg ccatttcat tctctttcgc atcggtatgt 1860
ataaggagtg tgtcttagtt gttggtcctt gtggacatcc ctcatctcca cgcttccatc 1920
agtctcctgg cagtgtgaag gcgggcgctc ataccaccca tgttcataat gacagctcct 1980
cttgtcaaaa ttatcccga aagaactccc acccttcttt ctgccttga aaagtgtac 2040
catgtcatg gcatctgca acttcagttc tgtatgtccc acacttcttt agagttaggc 2100
acattttgtt gttgctttgt cctgacacta cagtctcaca gaacgaactt ggaaatgcgg 2160
actggtatct ccataagtgt cagggtctgt gaagaccaat aaagattgag gaaatgtcag 2220
cctggaggag actaaggaga aatgaagacc aaatgcaatg aagcgtctcg gataagatcc 2280
taattggaag aan 2293

```

<210> 759

<211> 2293

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2293)

<223> n = A,T,C or G

<400> 759

```

nnnnnnnnnn nnnnnnnnaca acgtgtaacg tcactcttta ttatgaaaat aaaatggtga 60
tcatgagtgg ggcgaatata cagagcaact ggctctttgg gtggttatgt cacgtggcct 120
gcaagttaac gttggcttcc tggtcagcca ggcccttaggc tggtgaaaag aggaaacaaa 180
gaggatgtga acgaagacaa agaagacatc ggagggctcc ttttaggaga tttgcttgaa 240
ggcctccgcg gggatcttgc cctcggctcg gagcatagtg aaggcctggc cagctctagt 300
gtagttccac tcattgtcct gaaggcactt ctgagaccac tccagtttca tcccagactg 360

```

```

ggcagagaaaa gcctgcacca tttcctgctg ctcctgggag agggagggct cagagctgga 420
ggagagtgtg gacactggga tggagaaggc actctgagtc tcttgggggc tggcatccct 480
cacaacagc tcgtcattca cgtgcacag actggaactg ctgccagggg tagcaatgaa 540
ggtccgggtg aaggcgagaa cagaaccctg agactgtcct tccacttcct tgaaaacccc 600
attgacagaa aagcagagca tcctttccgt ctggcaccac acgtccacca ggatggagct 660
gaggtcatgc tgagtttttg gcaacgcact gagggagtcc acaatgtcac gttttgtgcg 720
cctcagcagt tcccccttca ggtaggggtc cttgagtgtt ttcattattcc tgctatcctc 780
aaagtacttg cacaagctgc tcggggctga gtccttgggg tcgaagggaa tagccaagga 840
gaagcaggcc tcactcgtgt aagcaccgag gagaccctgt cgatctccag agtcatagat 900
cgagtaatac tgctgcagga attgcaggac taaatgcttt agggctctcag atccagtaaa 960
gttttccttg cagggtttca ttgtctcaga gctgtcaatg tcaacaatca ctggtgcgga 1020
taactctcgg ccgtccaggc gtaacaactt ggggaaacaa tcccggatgg cacttacata 1080
ggcggactgg tccgagaagg tgctgcacaa cgggttccct tctagccata gctcttcgag 1140
cttcagccct ttcaccttgc ccaactccca cgccgactcc agcttatttt tgagagagatt 1200
cagggtcttg actttgggag ccttctctgt aatgtcagaa aggccatcca gctggtacag 1260
cttggtgttg cacaagttca aagacaacag ctcagggaaa tttctttcaa tgatcttcag 1320
ggtggcagcc atgcagtttc ttcgattcag gattatatca atgtcacggc ccatcaagtc 1380
tgggtcaaa cggagattct ggagatcaag agcttgcctg gagacattgt accgtttgtt 1440
catggtcagc tttagcatct ccatttggtc tggcttcaac ttattcttca cagagtaggg 1500
cgcagtagaa tgattgacaa atatacatat cttttggttc tcatcatcat aaatcttata 1560
actgacatcc ttaaatgcgg aggcagcgtc agcatcctgg acaaagaagc atgcccgatt 1620
tcggacgtag tggaaatcaa ccggagtga gcggtcactg caatggctct ggattgaatt 1680
cattagccat gccttgtcat actttatccc gtaaggaatt gtgaccttaa accagttcct 1740
tgtgtatcca tcctgtgtgt tctgactcat tttctctcc ggaggttttc tatttctcca 1800
cgtggtaata cggatttctg cttactatg ccatttcatt cttctttcgc atcggtatgt 1860
ataaggagtg tgtcttagtt gttggtcctt gtggacatcc ctcacttcca cgcttccatc 1920
agtctcctgg cagtgtgaag gcgggcgtc ataccacca tgttcataat gacagctcct 1980
cttgtcaaaa ttatcccggg aagaactccc acctttcttt cttgccttga aaagtgttac 2040
catggtcatg gcattctgca acttcagttc tgtatgtccc acacttcttt agagtagagc 2100
acattttgtt gttgctttgt cctgacacta cagtctcaca gaacgaactt ggaaatgcgg 2160
actggtatct ccataagtgt cagggtgtg gaagaccaat aaagattgag gaaatgtcag 2220
cctggaggag actaaggaga aatgaagacc aatgcaatg aagcgtcctg gataagatcc 2280
taattggaag aan | 2293

```

<210> 760

<211> 2293

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2293)

<223> n = A,T,C or G

<400> 760

```

nnnnnnnnnn nnnnnnnnaca acgtgtaacg tcactcttta ttatgaaaat aaaatgggtga 60
tcatgagtgg ggcaataaca cagagcaact ggctcttttg gtggttatgt cacgtggcct 120
gcaagttaac gttggcttcc tggtcagcca ggccttaggc tggtgaaaag aggaaacaaa 180
gaggatgtga acgaagacaa agaagacatc ggagggctcc ttttaggaga tttgcttgaa 240
ggcctccgcg gggatcttgc cctcggctctg gagcatagtg aaggcctggc cagctctagt 300
gtagttccac tcattgtcct gaaggcactt ctgagaccac tccagtttca tcccagactg 360
ggcagagaaa gcctgcacca tttcctgctg ctcctgggag agggagggct cagagctgga 420
ggagagtgtg gacactggga tggagaaggc actctgagtc tcttgggggc tggcatccct 480
cacaacagc tcgtcattca cgtgcacag actggaactg ctgccagggg tagcaatgaa 540
ggtccgggtg aaggcgagaa cagaaccctg agactgtcct tccacttcct tgaaaacccc 600
attgacagaa aagcagagca tcctttccgt ctggcaccac acgtccacca ggatggagct 660
gaggtcatgc tgagtttttg gcaacgcact gagggagtcc acaatgtcac gttttgtgcg 720
cctcagcagt tcccccttca ggtaggggtc cttgagtgtt ttcattattcc tgctatcctc 780
aaagtacttg cacaagctgc tcggggctga gtccttgggg tcgaagggaa tagccaagga 840
gaagcaggcc tcactcgtgt aagcaccgag gagaccctgt cgatctccag agtcatagat 900
cgagtaatac tgctgcagga attgcaggac taaatgcttt agggctctcag atccagtaaa 960

```

```

gttttccttg caggggtttca ttgtctcaga gctgtcaatg tcaacaatca ctgggtgcgga 1020
taactctcgg ccgtccaggc gtaacaactt ggggaaacaa tcccggatgg cacttacata 1080
ggcggactgg tccgagaagg tgctgcacaa cgggttccct tctagccata gctcttcgag 1140
cttcagccct ttcaccttgc ccaactccca cgccgactcc agcttatttt tggagagatt 1200
caggggtcttg actttgggag ccttctctgt aatgtcagaa aggccatcca gctggtacag 1260
cttggtgttg cacaagttca aagacaacag ctccagggaaa tttctttcaa tgatcttcag 1320
ggtggcagcc atgcagtttc ttcgattcag gattatatca atgtcacggc ccatcaagtc 1380
tgggtcaaag cggagattct ggagatcaag agcttgctgg gagacattgt accgtttgtt 1440
catggtcagc tttagcatct ccatttggcc tggcttcaac ttattcttca cagagtaggg 1500
cgcagtagaa tgattgacaa atatacatat cttttggttc tcatcatcat aaatcttata 1560
actgacatcc ttcaatgcgg aggcagcgct agcatcctgg acaaagaagc atgcccgatt 1620
tcggacgtag tggaaatcaa ccggagtga gcggtcactg caatggctct ggattgaatt 1680
catttagccat gccttgatcat actttatccc gtaaggaatt gtgaccttaa accagttcct 1740
tgtgtatcca tctgtgtgt tctgactcat tttctctccc ggaggttttc tatttctcca 1800
cgtggtaata cggatttcgt cttcactatg ccatttcatt cttctttcgc atcggtgct 1860
ataaggagtg tgtcttagtt gttggtcctt gtggacatcc ctcacttcca cgcttccatc 1920
agtctcctgg catgtggaag gcgggcgctc ataccacca tgttcataat gacagctcct 1980
cttgtcaaaa ttatcccggg aagaactccc acctttcttt cttgccttga aaagtgtctac 2040
catggtcatg gcattctgca acttcagttc tgtatgtccc acacttcttt agagtagagc 2100
acattttgtt gttgctttgt cctgacacta cagtctcaca gaacgaactt ggaaatgcgg 2160
actggtatct ccataagtgt cagggctgtg gaagaccaat aaagattgag gaaatgtcag 2220
cctggaggag actaaggaga aatgaagacc aaatgcaatg aagcgtcctg gataagatcc 2280
taattggaag aan

```

<210> 761

<211> 2293

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2293)

<223> n = A,T,C or G

<400> 761

```

nnnnnnnnnn nnnnnnnnaca acgtgtaacg tcactcttta ttatgaaaat aaaatggtga 60
tcatgagtgg ggcgaataca cagagcaact ggctctttgg gtggttatgt cacgtggcct 120
cacaagttaac gttggcttcc tggtcagcca ggcttaggc tggtgaaaag aggaaacaaa 180
gaggatgtga acgaagacaa agaagacatc ggagggtctc ttttaggaga tttgcttgaa 240
ggcctccgcg gggatcttgc cctcggctcg gagcatagtg aaggcctggc cagctctagt 300
gtagtccac tcattgtcct gaaggcaact ctgagaccac tccagtttca tcccagactg 360
ggcagagaaa gcctgcacca tttctgctg ctccctgggag agggagggtc cagagctgga 420
ggagagtgtg gacactggga tggagaaggc actctgagtc tcttgggggc tggcatccct 480
cacaacacgc tcgtcattca cgatgcacag actggaactg ctgccagggg tagcaatgaa 540
ggtccgggtg aaggcgagaa cagaaccctg agactgtcct tccacttcct tgaaaacccc 600
attgacagaa aagcagagca tcctttccgt ctggcaccac acgtccacca ggatggagct 660
gaggtcatgc tgagttttgg gcaacgcact gagggagtcc acaatgtcac gttttgtgcg 720
cctcagcagt tcccccttca ggtaggggtc cttgagtgtt ttcatttcc tgctatcctc 780
aaagtacttg cacaagctgc tcggggctga gtccttgggg tcgaagggaa tagccaagga 840
gaagcaggcc tcactgtggt aagcaccgag gagaccctgt cgatctccag agtcatagat 900
cgagtaatac tgctgcagga attgcaggac taaatgcttt agggctctcag atccagtaaa 960
gttttccctg cagggtttca ttgtctcaga gctgtcaatg tcaacaatca ctgggtgcgga 1020
taactctcgg ccgtccaggc gtaacaactt ggggaaacaa tcccggatgg cacttacata 1080
ggcggactgg tccgagaagg tgctgcacaa cgggttccct tctagccata gctcttcgag 1140
cttcagccct ttcaccttgc ccaactccca cgccgactcc agcttatttt tggagagatt 1200
caggggtcttg actttgggag ccttctctgt aatgtcagaa aggccatcca gctggtacag 1260
cttggtgttg cacaagttca aagacaacag ctccagggaaa tttctttcaa tgatcttcag 1320
ggtggcagcc atgcagtttc ttcgattcag gattatatca atgtcacggc ccatcaagtc 1380
tgggtcaaag cggagattct ggagatcaag agcttgctgg gagacattgt accgtttgtt 1440
catggtcagc tttagcatct ccatttggcc tggcttcaac ttattcttca cagagtaggg 1500
cgcagtagaa tgattgacaa atatacatat cttttggttc tcatcatcat aaatcttata 1560

```

```

actgacatcc ttcaatgcgg aggcagcgct agcatcctgg acaaagaagc atgcccgatt 1620
tcggacgtag tggaaatcaa ccggagtga gcggtcactg caatggctct ggattgaatt 1680
cattagccat gccttgatcat actttatccc gtaaggaatt gtgaccttaa accagttcct 1740
tgtgtatcca tcctgtgtgt tctgactcat ttttctctcc ggaggttttc tatttctcca 1800
cgtgtaata cggatttcgt cttcactatg ccatttcatt cttctttcgc atcggatgct 1860
ataaggagtg tgtcttagtt gttggctcct gtggacatcc ctcactcca cgctccatc 1920
agtctcctgg cagtgtgaag gcgggcgctc ataccaccca tgttcataat gacagctcct 1980
cttgtcaaaa ttatcccggg aagaactccc acctttcttt cttgccttga aaagtgtac 2040
catggtcatg gcattctgca acttcagttc tgtatgtccc acacttcttt agagtagagc 2100
acattttgtt gttgctttgt cctgacacta cagtctcaca gaacgaactt ggaaatgcgg 2160
actggtatct ccataagtgt cagggctgtg gaagaccaat aaagattgag gaaatgtcag 2220
cctggaggag actaaggaga aatgaagacc aaatgcaatg aagcgtcctg gataagatcc 2280
taattggaag aan 2293

```

<210> 762

<211> 3746

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(3746)

<223> n = A,T,C or G

<400> 762

```

nnnnnnnnnc ctgcagcgaa ggcccatgtg ggtggggcac ctctctttct tcccagacca 60
agcctcacct cttgtcccct gtgcagtgtg gaggtcatcc gtctgggcca cagctacttc 120
atcaactggg ataagaagat gttctgcatg aagaagcgga cgctgcaga agcccgcacc 180
accaccctaa acgaggagct gggccagggt gagtacatct tctccgacaa gacgggcacc 240
ctcaccacaga acatcatggt tttcaacaag tgctccatca atggccacag ctatggtgat 300
gtgtttgacg tcctgggaca caaagctgaa ttgggagaga ggctgaacc tgttgacttc 360
tccttcaatc ctctggctga caagaagttc ttattttggg accccagcct gctggagcct 420
gtcaagatcg gggaccccca cacgcatgag ttcttcgccc tcctttccct gtgtcatact 480
gccaagttag aagaaaagaa cgaacgagag aggtactaca aagctcagtc cccagatgag 540
ggggccctgg tcaccgcagc caggaacttt ggttttgttt tccgctctcg caccaccaaa 600
acaatcaccg tccatgagat gggcacagcc atcacctacc agctgctggc catcctggac 660
ttcaacaaca tccgcaagcg gatgtcggtc atagtgcgga atccagaggg gaagatccga 720
ctctactgca aaggggctga cactatccta ctggacagac tgcaccactc cactcaagag 780
ctgttcaaca ccacatgga ccaccttaat ggtacgcag ggaagggtg gaggaccctg 840
gtgctggcct acaaggatct ggatgaagag tactacgagg agtgggtga gcgacgcctc 900
caggccagcc tggcccagga cagccgggag gacaggctgg ctatgcatct tgaggagggt 960
gagaacaaca tgatgctgct ggggtgcaac gccattgagg aaaaacttca gcaagggtt 1020
ccagagacca ttgccctcct gacactggcc aacatcaaga ttgggtgct aaccggagac 1080
aagcaagaga cggctgtgaa catcggctat tcctgcaaga tgctgacgga tgacatgact 1140
gaggttttca tagtcactgg ccatactgtc ctggagggtg gggaggagct caggaaagcc 1200
cgggagaaga tgatggactc atcccgtccc gtaggcaacg gcttcacctc tcaggacaag 1260
ctttcttctt ccaagctaac ttctgtcctg gaggcggttg ctggggagta cgccctggtc 1320
ataaatggtc acagcctggc ccaocgactg gaggcagaca tggagctgga gtttctggag 1380
acagcgtgtg cctgcaaagc tgtcatctgc tgccgggtga ccccttgca gaaggcacag 1440
gtggtagaac tggtaagaa gtacaagaag gctgtgacgc ttgccattgg agacggagcc 1500
aatgatgtca gcatgatcaa aacggctcac attggtgtgg ggatcagtg gagggaagg 1560
atccaggctg tcttgccctc cgattactcc ttctcccagt tcaagtctct gcagcgctc 1620
ctgctggtgc atgggcgctg gtocctactg cgaattgtga agtttctttg ctatttcttc 1680
tacaaaaact ttgctttcac catgggtccac ttctggtttg gcttcttctg tggcttctca 1740
gcccagaccg tctatgacca gtatttcata accctgtata acatcgtgta cacctccctg 1800
ccagtcctgg ctatgggggt ctttgatcag gatgtccccc agcagcggag catggagtac 1860
cctaagctgt atgagccggg ccagctgaac cttctcttca acaagcggga gttcttcatc 1920
tgcatcgccc agggcatcta cacctccgtg ctcatgttct tcattcccta tggggtgttt 1980
gctgatgcca cccgggatga tggcactcag ctggtgact accagtcctt tgcagtcact 2040
gtggccacat ccttggtcat tgtggttagc gtgcagattg ggctcgacac aggtacttg 2100
acggccatca accacttctt catctgggga agccttgctg ttacttttgc catcctcttt 2160

```



```

gccatgcaca gcaatgggct cttcgacatg tttcccaacc agttccgggt tgtggggaat 2220
gcccagaaca ccttggccca gcccacggtg tggctgacca ttgtgctcac cacggtcgtc 2280
tgcatcatgc ccgtggttgc cttccgattc ctcaggctca acctgaagcc ggatctctcc 2340
gacacggtcc gctacacaca gctcgtgagg aagaagcaga aggccagca ccgctgcatg 2400
cggcgggttg gccgcactgg ctcccggcgc tccggctatg ccttctccca tcaggagggc 2460
ttcggggagc tcatcatgtc tggcaagaac atgcggtga gctctctcgc gctctccagc 2520
ttcaccaccc gctccagctc cagctggatt gagagcctgc gcaggaagaa gagtgcagat 2580
gccagtagcc ccagtggcgg tgccgacaag cccctcaagg gctgaaggcc gaggatggat 2640
gccctgtgcc agtgaccaga gcaccaggg ctggccagtc actgagggaa cagcgtctcg 2700
gaactgctgg tcctcattcc ttgcttcccg tcccccggt agactctgtc ctgctgggtc 2760
caccacacat ggctgggaca tctgttccca gctgtaggcc cttccaccag ctggggagct 2820
agaggagca ggcccaagg cagagcagag gctgaggcac ggggagccag cccactcgg 2880
ggaccagaag tggaaccaa aacaagaaa aactgtgaga gattgtgtct gccctgccc 2940
tgcctgggac ccacaggag actataatct ccttattttt ttactcctac tccccagag 3000
ggccctagt cctctgttcc tgaattacat aagaatgtac catgccggga agccagagac 3060
ctgcaggggc ctcgccctc caccatcgtgt atgtctctcc ttgatttgtg ttgtgtccag 3120
tttggttttg tcttttttta tttggcaagt ggaggaggct tttatgtgac ttttatgttg 3180
tggttggtgt ctttaactctc ctgggaaaag gaggtggca cacactggga tgccgcagcc 3240
tgcccggtc tggttggtt tgggaggatc catgtcggct ctgcctgcag tgaccagtgc 3300
tctgtggggc agaggagctg accaggagg gaggtacca tgagcagagg gtagtgggag 3360
agtgtaaagg agggtttgg cctgtctgct tcctcacctt gagagtaaag tgctgccctc 3420
tgccccaac acacacacat atcaattcct ggattcctta gtcctgctgg ccttgggctg 3480
gagcctagga aagtggcccc caaatcctta gtgagctaaa gctgggtctg aaatttggct 3540
cacttgggga ggggtagtgt tcttttctt tttcttttct tttttttctg 3600
agatggagtc tcactctgt cacttaggca agagtgaat ggcacaatct cagctcactg 3660
caacctccac ctctgggtt caagcgattc tcctgcctca gcctcctgag tagctgggat 3720
tacaggcaca caccaccag cttggn 3746

```

<210> 763

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(450)

<223> n = A,T,C or G

<400> 763

```

actacaaagc tcagtcccca gatgaggggg ccctggtcac cgcagccagg aactttggtt 60
ttgttttccg ctctcgacc cccaaaacaa tcaccgtcca tgagatgggc acagccatca 120
cctaccagct gctggccatc ctggacttca acaacatccg caagcggatg tcggtcatag 180
tgcggaatcc agaggggaag atccgactct actgcaaagg ggctgacact atcctactgg 240
acagactgca ccactccact caagagctgc tcaacaccac catggaccac cttaatgagt 300
acaagcnntn ntnntntn nttttttttt tttntccct ttattttgca tactttaatt 360
tcagaacaaa atgaagaaaa taaaataaac cacaatacac aacatccaat cctgctgtca 420
agagtagaga gggaatgggg cttgacann 450

```

<210> 764

<211> 2293

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2293)

<223> n = A,T,C or G

<400> 764

```

nnnnnnnnnn nnnnnnnaca acgtgtaacg tcactcttta ttatgaaaat aaaatgggtga 60
tcatgagtgg ggcgaataca cagagcaact ggctctttgg gtggttatgt cacgtggcct 120

```

```

gcaagttaac gttggcttcc tggtcagcca ggccttaggc tggtgaaaag aggaaacaaa 180
gaggatgtga acgaagacaa agaagacatc ggagggtcc ttttaggaga tttgcttgaa 240
ggcctcgcg gggatcttgc cctcgggtctg gagcatagtg aaggcctggc cagctctagt 300
gtagtccac tcattgtcct gaaggcactt ctgagaccac tccagtttca tcccagactg 360
ggcagagaaa gcctgcacca tttcctgctg ctctctgggag agggagggct cagagctgga 420
ggagagtgtg gacactggga tggagaaggc actctgagtc tcttgggggc tggcatccct 480
cacaacagc tcgtcattca cgatgcacag actggaactg ctgccagggg tagcaatgaa 540
ggtccgggtg aaggcgagaa cagaaccctg agactgtcct tccacttcct tgaacacccc 600
attgacagaa aagcagagca tcctttccgt ctggcaccac acgtccacca ggatggagct 660
gaggtcatgc tgagttttgg gcaacgcact gagggagtc acaatgtcac gttttgtgct 720
cctcagcagt tccccttca ggtagggtgc cttgagtgtt ttcatttcc tgctatcctc 780
aaagtacttg cacaagctgc tcggggctga gtccttgggg tcgaagggaa tagccaagga 840
gaagcaggcc tcactgtgtt aagcaccgag gagaccctgt cgatctccag agtcatagat 900
cgagtaatac tgctgcagga attgcaggac taaatgcttt aggggtctcag atccagtaaa 960
gttttccttg cagggtttca ttgtctcaga gctgtcaatg tcaacaatca ctggtgcgga 1020
taactctcgg ccgtccaggc gtaacaactt ggggaaacaa tcccggatgg cacttacata 1080
ggcggactgg tccgagaagg tgctgcacaa cgggttccct tctagccata gctcttcgag 1140
ctcagccct ttcaccttgc ccaactccca cgccgactcc agcttatttt tggagagatt 1200
cagggctctg actttgggag ccttctctgt aatgtcagaa aggccatcca gctggtacag 1260
cttgtgttg cacaagttca aagacaacag ctgagggaaa tttctttcaa tgatcttcag 1320
ggtggcagcc atgcagtttc ttcgattcag gattatatca atgtcacggc ccatcaagtc 1380
tgggtcaaa gcgagattct ggagatcaag agcttgctgg gagacattgt accgtttgtt 1440
catggtcagc tttagcatct ccatttggcc tggcttcaac ttattcttca cagagtaggg 1500
cgcagtagaa tgattgacaa atatacatat cttttggttc tcatcatcat aaatcttata 1560
actgacatcc ttcaatgcgg aggcagcgct agcatcctgg acaaagaagc atgcccgatt 1620
tcggacgtag tggaaatcaa cgggagtga gcggtcactg caatggctct ggattgaatt 1680
cattagccat gccttgtcat actttatccc gtaaggaatt gtgaccttaa accagttcct 1740
tgtgtatcca tcctgtgtgt tctgactcat ttttctctcc ggaggttttc tatttctcca 1800
cgtgtaata cggatttcgt cttcactatg ccatttcatt cttctttcgc atccggatgct 1860
ataaggagtg tgtcttagtt gttggtcctt gtggacatcc ctcatctcca cgcttccatc 1920
agtctcctgg cagtgtgaag gcgggcgctc ataccacca tgttcataat gacagctcct 1980
cttgtcaaaa ttatcccgga aagaactccc acccttcttt cttgccttga aaagtgtac 2040
catgtcatg gcattctgca acttcagttc tgtatgtccc acacttcttt agagttaggc 2100
acattttgtt gttgctttgt cctgacacta cagtctcaca gaacgaactt ggaaatgcgg 2160
actggtatct ccataagtg cagggctgtg gaagaccaat aaagattgag gaaatgtcag 2220
cctggaggag actaaggaga aatgaagacc aaatgcaatg aagcgtcctg gataagatcc 2280
taattggaag aan 2293

```

<210> 765

<211> 2427

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2427)

<223> n = A, T, C or G

<400> 765

```

nnnnnnnccg ggagaaaaag ggccaaaaaa acgtccatgg gccaaagggc cactactaagg 60
aaggcgaaaa aaaaagtctc gtctgtcttt tgggtgcctc tctgttcact tatcctgtgg 120
gttaagtgtc cctcgttttg ctccacacca ggagtttttg tgtctcttat aggaccgcgt 180
tagcactctc gggagtgttt ggtgtcccc cctttttgtt gatgcaccga aggggtgttg 240
gaacctggg gatttgagcc tcttcacaag ggcctgttgc cctcttggtc caccgggtat 300
caggcaaac accctctgtg cgcggcaatt tctttaccgg cctgatcctg cttcattcga 360
attattggat ctgcgccttg taccagaaat accctcgctg taggggcctc gaatggttcg 420
tgaactcttt gaaatggccc gacaccta atgcctgcct tatcttcttt gatgaaattg 480
atgctattgg agggctcctt ttgatgatgg tcttgagggt gcaccaatga agtcccagga 540
caccaatgtt ggaactgatc catcagcttg atggttttga tctcagagc caatattaaa 600
gtgctgatgg cccctaacag acctgatact ttggatcccg cctgatgag gcccgggaga 660
ttgtagaaga aatttgaatt tagcttgccc gatctagagg gtcggaccca catattttaa 720

```

```

attcacgctc gttcaatgag tgttgaaaga gatatcagat ttgaaactggt agcacgactg 780
tgtccaaata gcaactggtgc tgagattaga agcgtctgca cagaggctgg tatgtttgcc 840
atcagagcac ggcgaaaaat tgctaccgag aaggatttct tggaagctgt aaataaggctc 900
attaagtctt atgccaaatt cagtgtact cctcgttaca tgacatacaa ctgaaccctg 960
aaggctttca agtgaaaact ttaaattgga atcctaacct tatatagact tgtaataaac 1020
caattcataa acaaataaat ggcttcaaaa ttgtatgctt ttttccatat ctcttctgt 1080
aatataataa aagggtgattt ctaatgttat taggcagaaa agcttgtagt aatatatttt 1140
gactattttt ttgaccacaca cccgtttaag gatttcacat catacaaagc gcttgcttag 1200
atggcttcta tcctaggcat atgctggcgg ggtgctctac atataaattc tcattgtatc 1260
ctcccatctg tcactgagg aagattatca aatggatcct catccaatgg atgcataaac 1320
tttctacttt acttgtagtg gcaaagctgg ctttcaagta caagtgtgtt ggctccatta 1380
cctatgctcc tattatccgc ttctgtccc caacaaagta gctcacttag gcgtatgacc 1440
acatgcatta tgatagtttc ccaccacat attgaataat aaaagctttg gccaaagctt 1500
ttttaagta ggagaaacat tggatgtata tgttttgcat tgccatttga tttcaaatta 1560
atcaggaaga attagtgatt ttaatgagca gtaaagtgg gcaataaagc agaaagaaaa 1620
atgttcagcc agaagtgaag gactagtaaa aaaagaaaaa aaaatatttg tacatatgat 1680
ctaattttaga aagtccagaa ttggttcata cagaaaagtg attactttca ttttacaatt 1740
tactttaaaa tttggtaaaag ttctgttag gcttctggtc tacagtgagg tattttaaaa 1800
ataaaggtta tattagaatc ctcaacagat ctctttaaaa ttacctctg tgaaccacc 1860
accaaactct atcttctacc acaattacc cttccccca tgccaagacc aaagcacaat 1920
aatgaatatt tttattgaag ttcgatatcc ataaaataag tgcaaaataa gagttggata 1980
tatttttaat tcacaataga aaaagttgac aacatagaaa atgctgcttt gcaactgaaat 2040
acttaaaatt atgaaagttt tcaagtaaag aaattaaagc cttttataaa atccaacca 2100
cattcttgat ttttcatttt tatgaacttg atcagaaaaa ttcactttt ttaacctgc 2160
cctaattttt cttgaggaat taaatagagc aaactatttt caggttatgc ttacaataaa 2220
atatacttaa gaaaatgact gaagatgtat gtttttgaat gttttgatta aataaatgta 2280
cacattttaa aataaaaaaa aagacgaaaa aaaaaggggg gggaaaatcg agggacagcc 2340
cgggttttag cccttagaga taaaggcggg aggagaaaac ggtggagacc gtgggggcc 2400
aggaaatggt ctgcgttgtg cttcagn 2427

```

<210> 766

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(423)

<223> n = A,T,C or G

<400> 766

```

gggcgaattg gagctccccg cgggtggcggc cgagggtactc ctcagggtct tttcagagat 60
gccctcgata aatttcaaga cagctttggc ctggtctaga gtcttacagc agtccacca 120
cacaccacaca ggctgggtgt cctgcaagct ctccttcaac tccctcagct ccagatcaga 180
aggaccaaga ctctcatccg gactctgggg aggcagggcc tccatggtgg caacgtggga 240
ggagatgggg aggatgttga gctggtcac aatgacgaga cacttcttac aagaggccag 300
agacagaata aacctttcat taaatcttcc caccacatcc tgatgggcct cagttctgta 360
cctggaatgc acatccatag tcactgtgta caattgcttg agtgagttca tgggtccgtan 420
nnn 423

```

<210> 767

<211> 1139

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1139)

<223> n = A,T,C or G

<400> 767

```

nnnatctgtga aagagtacaa tgcgtgtggg ccaccgggtc ccaacatttt ctgtgtaccc 60
ccgttttttcc tccatagcct tccagggtgcc agcgccccgg gtttcgcccc ctcttgtttg 120
ttctttttttt ggagttcgcc taccttatca gggatgaaaa acagttgaaa catactgccg 180
cagatttcac tgtgccggcc tataaaggaa acaaccctgt tgaagctgtg gagtttttta 240
cgaagacccc ttactataat tggtcactac ctccgtatca gtcacgataa cagcagtaga 300
tatccccggg ttagcatcca gagctgagtg cccaaggaa gacagaggca atggcagaat 360
aatatgctga gaaaggactc ttaagagcaa tacaaagaga acagacaaaa atctcaccac 420
aaaattgtac ctgagtgaca gattggtaaa gtgttttact tttttttttt cttttcgctc 480
tttggctcga caagaaaaga gttttagggtg tgtgaagtag ggtgggaaaa aaggtcagtt 540
tcaaattcag taacatatgg taacactaag ttaggctgct gcattctttt ctttggttac 600
ttaagccagc tggcacttcc actttgtaac caattatatt atgatcaaca actaatcagt 660
tagttcctca gcttcaactg aagagttcct gattacctga tgaaggacat acttgctctg 720
gcttcaatta gcatgctgtc aagcatccct ctccatgctt aacatggcaa cacaaaaccc 780
aagagtcctt ctcttttttt cattagccat gaataaacac tcacaaaggg gaagagtaga 840
cactgctttt agtaaacgtc ctttttcttt acctcccttt tccaatgcca agttcatatg 900
aaaaacttta gaaacattaa aatggagaac tctctcaccp aaaaagtaat tctcattcca 960
gactactcta tcaggcagga ttactgtacc gtgcttggtt caaactcaca tccacggagg 1020
gataaaaaaga caaaataaaa cttgacagtg tgatacaaca tgaaaatctc ctaaacctatc 1080
aggagcaaac actcagttaa aagctgggtg ttaacaagcg gacgcgtggg cggacgcgn 1139

```

<210> 768

<211> 675

<212> DNA

<213> Homo sapiens

<400> 768

```

ggggcgcccg aggtaccaga acttctatgc acacctccct gagagtctgg gaaccttcac 60
cgctgacctg tgtgagatgt tcccagcagg catttatgac accaaatatg ctgctgagtt 120
tcatgcccgt ttcgtggcct cctacttaga atatgccttc cggaaatgtg aacgggaaaa 180
tgggaagcag cgggcagctg gcagcccaca ccttaccctg gagttctgca actatccttc 240
cagcatgagg gaccatattg attaccgctg ctgcctgcc ccagcaacc accgtcctca 300
tcccaccagc atctgtgaca acttctcgge ttatggctgg tgccccctgg gaccacagt 360
tcctcagttc cagcatattg accttatcat tgacactgat gaggctgcgg cagaggacaa 420
gcggcgacgg cgacgacgta gggaaaaacg gaagagggtt ttattgaacc taccggggac 480
acagacctct ggggaagcta aggatggtcc tcccagaag caggctctgt gggatagcat 540
caagcctgaa gaaaccgagc aggaggtggc tgccgatgaa actaggaacc tgcctcactc 600
caagcaaggc acaaaaaatg acttagagat ggggattaag gcagcaaggc ctgaaatagc 660
tgatagagct acctc 675

```

<210> 769

<211> 1516

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1516)

<223> n = A, T, C or G

<400> 769

```

nnnnaaacca acagcagtc aagctcagtc agcagaagag ataaaagcaa acaggctctgg 60
gaggcagttc tgttgccact ctctctcctg tcaatgatgg atctcagaaa taccacagcc 120
aaatctctgg acaagttcat tgaagactat ctcttgccag acacgtgttt ccgcatgcaa 180
atcaaccatg ccattgacat catctgtggg ttcttgaaag aaagggtgctt ccgaggtagc 240
tcctaccctg tgtgtgtgtc caagggtggt aagggtggct cctcaggcaa gggcaccacc 300
ctcagaggcc gatctgacgc tgacctggtt gtcttctca gtcctctcac cacttttcag 360
gatcagttaa atcgccgggg agagttcatc caggaaatta ggagacagct ggaagcctgt 420
caaagagaga gagcattttc cgtgaagttt gaggtccagg ctccacgctg gggcaacccc 480
cgtgcgctca gcttcgtact gagttcgctc cagctcgggg agggggtgga gttcgatgtg 540
ctgcctgcct ttgatgccct gggtcagttg actggcagct ataaccctaa ccccaaatc 600
tatgtcaagc tcatcgagga gtgcaccgac ctgcagaaag agggcgagtt ctccacctgc 660

```

```

ttcacagaac tacagagaga cttcctgaag cagcgcccca ccaagctcaa gagcctcatc 720
cgcctagtca agcactggta ccaaaattgt aagaagaagc ttgggaagct gccacctcag 780
tatgccttgg agctcctgac ggtctatgct tgggagcgag ggagcatgaa aacacatttc 840
aacacagccc agggatttctg gacggctcttg gaattagtca taaactacca gcaactctgc 900
atctactgga caaagtatta tgactttaaa aaccccataa ttgaaaagta cctgagaagg 960
cagctcacga aaccagggcc tgtgatcctg gacccggcgg accctacagg aaacttgggt 1020
ggtggagacc caaaggggtg gaggcagctg gcacaagagg ctgaggcctg gctgaattac 1080
ccatgcttta agaattggga tgggtcccca gtgagctcct ggattctgct ggtgagacct 1140
cctgcttccct cctgcccatt catccctgcc cctctccatg aagcttgaga catatagctg 1200
gagaccattc tttccaaaga acttacctct tgccaaaggc catttatatt catatagtg 1260
caggctgtgc tccatatttt acagtcattt tggtcacaat cgagggtttc tgggaattttc 1320
acatcccttg tccagaattc attcccctaa gagtaataat aaataatctc taacaccatt 1380
tattgactgt ctgcttcggg ctgaggttct gtcctagagc cctttaatat gcactctctc 1440
attaatatgt cccaacaatc ccatgaccca gcaagacgag aagaaaannn nnnnnnnnnn 1500
nnnnnnnnnn nnnnnn 1516

```

<210> 770

<211> 727

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(727)

<223> n = A,T,C or G .

<400> 770

```

nnnnnattaa gagctattac aaagttcttt cctctaagta aaaaaccac tagaaaaaga 60
tatttgtaaa aatcattgca gggttactga tactgaatga agcacagggg tactggaaca 120
gggataagtt cttggataag gtgccaacat acctataaaa gctgattttt gaggtaaatta 180
ttgattctaa catatgtaat ggatttgggt tgataatttt ctgatcttta actataagtg 240
actttttatt ctccaccaga aaagataaat gactgagaat gtaagtctgc gctctgatta 300
acacaatgga gaaacggaaa aactatctct gttaaaaact gattcctgtc attcttctga 360
tatcaaataa gaggaaggaa aataaacttt ttgtgtgtag atagaaaaac atacctgagg 420
ccaggtgcag tggatcacgc ctgtaatccc agcactttgg gagggcaagg cgggcagatc 480
agctgagggtc aggagttcga gaccagcctg gccaacatgg tgaaatcacg tctctactaa 540
aaatacaaaa attatctggg tgtagtgggt cgtgcctgta atcccagcta ctcgggaggc 600
tgaggcagga gaatcacttt aattcaggag gtggagggtt gcagtgagcc gagatcatgc 660
cactgcactc cagcctgggc aacagaggga gactccacct caaaaaaaa aaagaaaaag 720
tnnnnnn 727

```

<210> 771

<211> 1721

<212> DNA

<213> Homo sapiens

<400> 771

```

gcgtccggca gtaagatggt ggggcccagg tcttgggaga cgggcaggat tggggacgag 60
aggcaggaag agacgggttg ggggagagga gaaggcaggg gtaggaggca aagggaatct 120
gaggaccgga aaggttgag gtggggttg aaagactggg gccctgcggg gaagcgagtc 180
tgcagcctga aacaggagtt tgtgggtcag agtttgtggg tcagagtttg tggggtggg 240
atagaaactc gggggatttg cgttcagatg ctgaccactt ccctcttctc tgagcagtg 300
gacttcaccg aagaccagac cgcagagttc aaggaggcct tccagctgt ttgaccgaac 360
aggatgatggc aagatcctgt acagccagtg tggggatgtg atgaggggccc ctgggcccaga 420
accctaccaa cgccgaggtg ctcaagggtc tggggaaccc caagagtgat gagatgaatg 480
tgaaggtgct ggactttgag cactttctgc ccatggctgc agacagtggc caagaacaag 540
gaccaggcac ctatgaggat tatgtcgaag gacttcgggt gtttgacaag gaaggaaatg 600
gcaccgtcat ggggtgctgaa atccggcatg ttctttgtca cactgggtga gaagatgaca 660
gagggacgaa gtagagatgc tgggtggcagg gcatgaggac agcaatggtt gtatcaacta 720
tgaagcgttt gtgaggcata tctgtcggg gtgacgggcc catggggcgg gtacggctcc 780
tccagctctc cctctagttg atctcccag tgtttctttt ttccccaacc tgtgctctt 840

```

```

atcccctgcc cttaccctac taccatctga ctttctcctg gcatgtttct gcatggagct 900
gactaggagg gggaggagatt cctcaaagag gaagacaacc tgggggtaca gtacctcctt 960
acctctagaa tgggccctga ggttttactt atgcgccctt ggggtgctgg gtctgggaac 1020
tctcaccagc ctgtatacca gtcttgcttt agggtagcct tctggccctg gagcatgggt 1080
agctggcata gaggggtatg ggttgccctgc cccattctgc tgctatagct gaacagtcct 1140
ttccccttcc ctgcgtgggc agcttgaggg taccctaacc caaaactctg tcctctcctc 1200
ccgccagtgg ctgacagtag ctgtagggtg agtggagaac ttttctgcct ctgctgtgtt 1260
cttgctgctt aggtttgggt gggggactaa cagctgctgg gaggggagct aggggcattg 1320
agaactggtc agactcaagg tggctcctct gcaaactgac cccagggttg gttgctgtgg 1380
gcatgttccc gcttatgcta cctttgcagt ctggtagtcc cctggccctt ggcgtacccc 1440
tccacagccc tgttccctgg ctcatcccac ctttctttc cacagagctc gtccgcatgg 1500
tgctgaatgg ctgaggacct tcccagcttc cccagagtcc gtgcttttcc ctgtgtgaat 1560
tttgctatct gcctaaagt tccctaggct ttcttgctc agcaactttc ccatcttgct 1620
tctcttggat gatgtttgcc gtcagcattc accaaataaa cttgctctct gggccctcaa 1680
aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaagcttg t 1721

```

<210> 772

<211> 5749

<212> DNA

<213> Homo sapiens

<400> 772

```

atgtttgtga ttatggcat cagttttttt gtttgagtca agggcagaaa tatttatttt 60
aagataatgt aagaatgtaa gacagggtgc tttgcaattt ataataagaa cagtaagttg 120
gaacttaagc taaataaatt gcttattatg aaatgattct gagaagtacc ataaactgtt 180
tatcatgtat gctttctgta aaaagtttaa tatgaatttt atgtataact taatttttcc 240
aaagaacagt ttatagaagg aaacactgac aataacagca tacatgtagt cagtacatta 300
ttattttcaa accactagca aatttttaaat tgatataagt aacaattcag tgagatattt 360
ttatctctca ttttatagat gataaaattc aagagtgata atatgatgga aatcactgta 420
atttactttc ttttctattt tatcagaaca tttattttat cacattttta tattatgttg 480
cagccttaca aatgttttca tccactcact ctgataagca ataaagaata aaataaagat 540
tgcatatgta caatgctatt cttccttggg aaaatgacag aattataaag gattttcaatg 600
ggctaattta atttttaatc tatatttgca ggatttgcca tgtacgcaac atagtataac 660
ttatagtcaa ggattaaagg aaactgcatt tttttcaatt actttaggta ccaaatacata 720
ttaagaacat tcagtgtaa gtaaaataga cctgaggtat gttatatgag tgggtaggca 780
ttttcattta gtcagtcaat taaatcaact ttcaaagcaa gtgaaattat attcttatac 840
tatatgggat ccttgaactt atgaataata ttattttaaa ttactgtcat aaataatatt 900
agataaacaa tgtaaaaagt ctaacataca aaatcaatgc taagagtaac attttcttgg 960
aaataacatt acttttataa ataagctgat gcagatcaat ttcacattta ataacttata 1020
aaaacaaagt cagtgttttc tagtttcata tgcaaaaagca aagtaatagt tggagtgtat 1080
gtaacctaca ttaaataatg cttagaaagg aagataaatg aacttatctt ccataatgcaa 1140
tatgtaataa cgtaattca gactaattgt tctatttttg tgtagtatct ttgtataaac 1200
taagcatttt taattgaaca gatttctatt aagtattatc aaattgtttc tctatgtaca 1260
aatctaattt tgttgtgatt caacagaaag tttttatttt cccttttaag acatattctt 1320
ttgaaataat aaattatatt taaattatta ttactggctg ttttagcatc cttttcaagt 1380
ggctcctttg caagaaacaa aaatattagc ttctacttaa tatatacatc agtcttataa 1440
accattttat attagtcttt tacaatactc atttgatgct agacatacat taacaatatg 1500
cagtaagtta cagagtgtaa gacgttattt ttactagtgt tattaacgtg taccacctat 1560
gatcaggagc agcttcatgt ttaagaagat aatgacaatg acaatgatta ctgttacaac 1620
aactaccact gcttctacta tcaacacatg actttttggg ggaggaaaat tctacacttt 1680
aaatttcttt accgtataca taaaacaata acagacattc tgttgacttt ggcaataaaa 1740
caacaatttt taaaaacttt atacaagtca aacaacatat gtttaattag tactttttaa 1800
agttaaaagt aacgtaaac aattgtttta tatagtagct taatttctat ttcttttcaa 1860
aattatctca gtgtaattaa aaactgggca aataacagga atttaattct aagggtatta 1920
taaactctca gcaatattca tctctgaaaa taagttcaca gtccaaaatc aaagaaaatg 1980
cgatgttcat ttttaggcga tcaacattcc atgagtcata aattattttg aaatgaggaa 2040
aatttctaata gaataaataa aaaaataata ttgaaagtac ctgcccgggc ggccggccga 2100
ggtacgaaat tgggatgaca tgaaacacct gtgggactac acatttggac cagagaaact 2160
taatatagat accagaaatt gtaaaatctt actcacagaa cctcctatga acccaaccaa 2220
aaacagagag aagattgtag aggtaatgtt gtaaacttac cagttttccg gtgtatatgt 2280
agccatccag gcagttctga ctttgtacgc tcaaggttta ttgactgggt tagtggtaga 2340

```

ctctggagat	ggtgtgactc	acatttgccc	agtatatgaa	ggcttttctc	tccctcatct	2400
taccaggaga	ctggatattg	ctgggaggga	tataactaga	tatcttatca	agctacttct	2460
gttgcgagga	tacgccttca	accactctgc	tgattttgaa	acggttcgca	tgattaaaga	2520
aaaactgtgt	tacgtgggat	ataatattga	gcaagagcag	aaactggcct	tagaaaccac	2580
agtattagtt	gaatcttata	cactcccaga	tggacgtatc	atcaaagttg	ggggagagag	2640
atttgaagca	ccagaagctt	tatttcagcc	tcacttgatc	aatgttgaag	gagttgggtg	2700
tgctgaattg	ctttttaaca	caattcaggc	agctgacatt	gataccagat	ctgaattcta	2760
caaacacatt	gtgctttctg	gaggggtctac	tatgtatcct	ggcctgccat	cacggttgga	2820
acgagaactt	aaacagcttt	acttagaacg	agttttgaag	ggtgatgtgg	aaaaactttc	2880
taaatttaag	atccgcattg	aagacccacc	ccgcagaaag	cacatggtat	tcctgggtgg	2940
tgcagttcta	gcgatatca	tgaaagacaa	agacaacttt	tggatgacct	gacaagagta	3000
ccaagaaaag	ggtgtccgtg	tgctagagaa	acttgggtg	actgttcgat	aaactccaaa	3060
gcttgttccc	atcatacccg	taatgctttc	ttttttcctt	tattgccaat	ctttgaactc	3120
attcaactcc	aggacatgga	agaggcctct	ctctgccctt	tgactggaaa	ggtcaagttt	3180
tattctgggtg	tctttgggaa	gctttgttaa	atttttgtta	atgtgggtaa	atctgagttt	3240
aattcaactg	cttccctata	tagactagag	ggctaaggat	tctgtctgct	gctttgtttc	3300
ttctaagtag	gcatttagat	cattcctgta	ggcttcctat	tttcaactta	ctgctcta	3360
gctgctagtc	gtagtcttta	gcacactagg	tggatgcct	ttattagcat	aaaacaaaaa	3420
aaactttaac	aggagctttt	acataattact	gggatggggg	gtgggttcggg	atgggtgggc	3480
agctgctgaa	ccctttaggg	catttcctct	gtaatgtggc	gctttcaact	gtactgctgc	3540
agctttaagt	accttaaaagc	ttctcctgtg	aacttcttag	ggaaatgtta	ggttcagaac	3600
taaagtgttt	tgggtgggtt	ttgttgcggg	ggggagggtta	acaatgggtg	gtcttctgat	3660
ttttattttt	gaggttttgt	caactggagt	acgtagagga	actttattta	cagtactttg	3720
atttggcagg	ttttcttcta	cttgtgctct	gcctggagct	gtttccatat	gatataaaaa	3780
gcaagtgtag	tattccatta	ctatgtggct	tagggattta	tttgtttttt	aaaatcaacc	3840
atgttagctg	ggatttagact	ccctacagtc	cttcaatgga	aaagtaacat	ttaaaaatcc	3900
tttgggtaat	tcaaattaca	gattttaaag	agcttaagat	ctgggtgttt	gttaatgctt	3960
ctgtttatct	cagaagcatt	aaggtaaccc	attgccaaat	atcattcttg	caaattatct	4020
ttttatataa	ctgaccagtg	cttaataaaa	caagcaggta	cttacaataa	attactggca	4080
gtagggtata	attggtggtt	taaaaataac	attggaatac	aggacttggt	gccaatggg	4140
taattttcat	acttttctt	gtttgttttg	atttgaaacc	tggaaataca	gtaaaaattg	4200
actgtttaaa	atgttggcca	aaaaaatcaa	gatttaattt	ttttatttgt	actgaaaaac	4260
taatcataac	tgtaattct	cagccatctt	tgaagcttga	aagaagagtc	tttgggtatt	4320
tgtaaacgtt	agcagacttt	cctgccagtg	tcagaaaatc	ctatttatga	atcctgtcgg	4380
tattccttgg	tatctgaaaa	aaataccaaa	tagtaccata	catgagttat	ttctaagttt	4440
gaaaaataaa	aagaaattgc	atcacactaa	ttacaaaata	caagttctgg	aaaaaatatt	4500
tttcttcatt	ttaaaacttt	tttttaacta	ataattggct	tgaaagaaga	ggcttaattt	4560
gggggtggta	actaaaatca	aaagaaatga	ttgacttgag	ggtctctggt	tggttaagaat	4620
acatcattag	cttaaaataag	cagcagaagg	ttagttttta	ttatgtagct	tctgttaata	4680
ttaagtgttt	tttgtctggt	ttacctcaat	ttgaacagat	aagtttgcct	gcatgctgga	4740
catgcctcag	aaccatgaat	agcccgta	agatcttggg	aacatggatc	tttagagtcac	4800
tttggaaataa	gttcttacat	aaataccccc	agccttttga	gaacggggct	tgtaaagga	4860
cgcgatgta	gggcccgtac	ctactggcag	ttgggttcag	ggaaatggga	ttgacttggc	4920
cttcaggctc	cttttggtcat	aatttttaaa	tatgggagta	gaaaacaaca	aagaatggaa	4980
tggactctta	aaacaatgaa	agagcattta	tcgtttgtcc	cttgaatgta	gaatttggtt	5040
ttgatttcat	aattctgctg	gtaaatgtga	cagttaaaaat	ggtgcattat	gtatatatat	5100
tataatttag	aaataccatt	ttataatttt	acctattcca	gggtgacata	atgcatttaa	5160
atttgggatt	gggtggagta	ttatgtttta	ctgggagttg	tcaagtatga	gtccctcagg	5220
gaaaaaaaaa	aaattctggt	ttaaaaagca	atctgattct	tagctctgga	aactatggct	5280
acttaaat	ccaataatta	aaaattttaa	atttttaaat	tagaatggcc	aatacttcta	5340
catttgagaa	gggttttttt	agaaatacat	ttagtaaagt	ccccagaagt	tagtcttaca	5400
tttaaacctt	tttctttaa	acatggtttg	ggtgggttaac	cttttacaca	gttctgagta	5460
ctgttaatat	ctggaaagta	tcttgagata	tcagtgga	gctaaacagt	ctaaattaac	5520
atgaaatact	tcattttgat	tgagaacatt	acactcgatt	ctttccagac	caccacaaca	5580
cactcacaac	aaaaaaattg	tgggggcgcc	gcccggaaaa	gatttaacac	atgttggggg	5640
cgcccccccg	aaagaactct	cccagtgccc	agaaaccgcg	gcacagtgtt	gtccacacaa	5700
aaaccggggc	cgcctctgga	acacgggtgg	ggcgggtccc	gcggtctacc		5749

<210> 773

<211> 1827

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1827)

<223> n = A,T,C or G

<400> 773

```
ctactgcaga aatgccttgg acaaaaacca gtgctcactg aatctttgac acaaaatgga 60
ataggctatc ccagggggca agaagggtgt cggccctgtg cccagtctcc tcttgatgct 120
cccagtgcc agcagcctcg cacaccctga ctgtctgttc ctgggctgcc catttctcaa 180
gaaaccgagc ctgcaaaggg cagccggctg ctgcctccac accgagggtg gtgcggtcct 240
gctgctcgct cactgggagg tgcagctctt tctcctcttc ctctaggaat tccagaccga 300
ccatctacca tgactaacia caatgaacia agggcttagg ggcaagagct acctgcaaa 360
acgtgtcatg gaacccttca ccatgcaatg ccttgaactc agctctgggt gctcccaaga 420
aaaggtgggt ggctgggggc ctggacacia gcacaatggg gctgggtggg ccactgtgca 480
gagctacttt aataatcact gggttttcat caactccttt ttgtcataca gaccactcaa 540
gggctgacag tgtcggtaac cttcattcgg tgtcaaagcc tcacaggcag gtgagccacc 600
tgagatgctt gtggccacat ggtgcgcaaa gtcagagctt tgaaagttag taccaaatga 660
acgcataatt ggacacaaaa aatcaagtgt tactttcatg ttctctcacc ccatcatctc 720
attgcctcct gctgactctg ataccgacgc tgagctgact tgccaggctg ccgctggacg 780
cgtagagatc aggccagcgc cgcgctcatt ttccagggtg gacctactct gtggaacgga 840
agtgccttag ctgctttggt tttgtagcac ttgctggctg aatttttctt ttgctaactg 900
ctaaccagaa agtctgggta gagggggctc aactcaatcc ctttgggtcc cagcgccaga 960
caagagttaa ttctggaaaa ttcagtactt gaatgtacct gccttattgc ataccaattt 1020
actgggggga aaaaaaaagt taagagatgc cggctccaga tctccacttc attcacaggt 1080
gatttttgaa atcctgtaag ttacacttcc tgttctgggt ttgttttgtt ttttgtttcc 1140
tttggtgat tctgtctgag tgaggccagt tctctcatcag gctcagggca ggtgcctttt 1200
caggcgtggc ctcttttcca tctagcacag catctttgtc tctgttctgt ctctccaaa 1260
tccaagatga ttttaattag tacagacatg tacagtctac aattaaagag tgatttgtac 1320
taatatgatt ttgattcttc ctctcttttg ctgtcctttc aagacacttg ctggaaaaag 1380
ctttaatgca ctttagtttc ctttaggttt tctatgactc agatgtaaag gactttctct 1440
gtacagtata ttatccaatg catgtttgtt ctctctcctg atatatgaa caccacacag 1500
ttgtgaagcc gtgcagtggg gatgccccac accccacaga ggcactctac cctgtgtata 1560
aggaaagaca ttttcttttg ctgtacttgc ttgagcagtt ttattgtctg tacatgtgag 1620
ctgtgtgaga tagatgtgaa aagttcaaat gaatgcattt tcctgccccca tgtatacaga 1680
ttgtcatctg tacaaggaac tgtatgtatg aaagcaaatg tacttattta taaatggcta 1740
acacttgtaa aaaaaaaaca aaaacaaaaa aaaaaaaaaa aagggggggc caaaaccccg 1800
gggcacaaac acctttaag gcgccan 1827
```

<210> 774

<211> 2360

<212> DNA

<213> Homo sapiens

<400> 774

```
gcgtccgcta ccccttcgtc cctcccga aatgacgga tttgaccctt gagccgtagg 60
gagcgcggca ttttctggaa agttctggaa ccgagcgagg cccgggaact agactaagcc 120
ggccggagag ggctgagcgc gctagcacac cctgcgcgga aatgcttcgg ttaccacacag 180
tctttcgcca gatgagaccg gtgtccaggg tactggctcc tcatctcact cgggcttatg 240
ccaaagatgt aaaatttgggt gcagatgccc gagccttaat gcttcaaggt gtagaccttt 300
tagccgatgc tgtggcgggt acaatggggc caaagggaag aacagtgatt attgagcaga 360
gttggggaag tcccaaagta acaaaagatg gtgtgactgt tgcaaagtca attgacttaa 420
aagataaata caaaaacatt ggagctaaac ttgttcaaga tgttgccaat aacacaaatg 480
aagaagctgg ggtggcact accactgcta ctgtactggc acgctctata gccaaaggaa 540
gcttcgagaa gattagcaaa ggtgctaata cagtggaaat caggagaggt gtgatgttag 600
ctgttgatgc tgtaatgtct gaacttaaaa agcagtctaa acctgtgacc acccctgaag 660
aaattgcaca ggttgctacg atttctgcaa acggagacaa agaaattggc aatatcatct 720
ctgatgcaat gaaaaaagtt ggaagaaagg gtgtcatcac cagtaaagga tggaaaaaca 780
tgaaatgatg aattagaaat tattgaagga atgaagtttg atcgaggcta tatttctcca 840
tactttatta atacatcaaa aggtcagaaa tgtgaattcc aggatgccta tgttctgttg 900
```



```

agtgaaaaga aaatttctag tatccagtc attgtacctg ctcttgaaat tgccaatgct 960
caccgtaagc ctttggcat aatcgctgaa gatgttgatg gagaagctct aagtacactc 1020
gtcttgaata ggctaaaggt tggctcttcag gttgtggcag tcaaggctcc aggggttggg 1080
gacaatagaa agaaccagct taaagatatg gctattgcta ctggtggtgc agtggttggg 1140
gaagagggat tgaccctgaa tcttgaagac gttcagcctc atgacttagg aaaagttgga 1200
gaggtcattg tgaccaaaaga cgatgccatg ctcttaaaag gaaaagggtga caaggctcaa 1260
attgaaaaac gtattcaaga aatcattgag cagttagatg tcacaactag tgaatatgaa 1320
aaggaaaaac tgaatgaacg gcttgcaaaa ctttcagatg gagtggctgt gctgaaggtt 1380
gggtgggacaa gtgatgttga agtgaatgaa aagaaagaca gagttacaga tgcccttaat 1440
gctacaagag ctgctgttga agaaggcatt gttttgggag ggggttgtgc cctccttcga 1500
tgcatccag ccttggactc attgactcca gctaatagag atcaaaaaat tggatatgaa 1560
attattaaaa gaacactcaa aattccagca atgaccattg ctaagaatgc aggtgttgaa 1620
ggatctttga tagttgagaa aattatgcaa agttcctcag aagttggtta tgatgctatg 1680
gctggagatt ttgtgaatat ggtggaaaaa ggaatcattg acccaacaaa ggttgtgaga 1740
actgctttat tggatgctgc tgggtgtggc tctctgttaa ctacagcaga agttgtagtc 1800
acagaaattc ctaaagaaga gaaggacct ggaatgggtg caatgggtgg aatgggaggt 1860
ggatatggag gtggcatgtt ctaactccta gactagtgtt ttacctttat taatgaactg 1920
tgacaggaag cccaaggcag tgttcctcac caataacttc agagaagtca gttgaagcct 1980
acagtaaacc agttatatat tttgtcaact gaaaccagta actgatggtt atagttgaca 2040
aaatatataa tgggttactg ctgtcattgt ccatgcctac agataattta ttttgtattt 2100
ttgaataaaa aacatttcta cattcctgat actgggtaca agagccatgt accagtgtac 2160
tgctttcaac ttaaatacact gaggcatttt tactactatt ctgttaaaat caggatttta 2220
gtgcttgcca ccaccagtc agaagttaag gacgctttct gtggagagtg agaataattg 2280
tgtacaaagt agagaagtat ccaattatgt gacaaccttt gtgtaataaa aatttgttta 2340
aagttaaaaa aaaaaaaaaa

```

<210> 775

<211> 3376

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)... (3376)

<223> n = A,T,C or G

<400> 775

```

nnnnatcccc tcttgcctcg cggcgaggg gcaagatggc tgctgagaag cagggtcccag 60
gcggcgggcg gcggcgggcg agtggcgggc gcggtggcag tggcgggcggc ggtagcgggc 120
gtggacgtgg tgccggaggg gaagaaaata aagaaaacga acgcccttcg gccggatcga 180
aggcaaacaa agaatttggg gatagcctga gtttggagat tcttcagatt attaaggaat 240
cccagcagca gcatggttta cggcatggag attttcagag gtacaggggc tactgttccc 300
gtagacaaag acgtcttcga aaaacactca acttcaagat gggtaacaga cacaaattca 360
cagggaagaa agtgactgaa gagcttctga ccgataatag atacttgctt ctggttctga 420
tggtgctgga aagagcctgg agctacgcca tgcagctgaa acaggaagcc aacactgaac 480
ccgaaaaacg gtttcaactg ttatctcgcc tacgcaaagc cgtgaagcat gcagagggaat 540
tggaacgctt gtgtgagagc aatcgcggtg atgccaagac caaattagag gctcaggctt 600
acacagctta cctctcagga atgctacgtt ttgaacatca agaattgaaa gctgccattg 660
aggcttttaa caaatgcaaa actatctatg agaagctagc cagtgccttc acagaggagc 720
aggctgtgct gtataaccaa cgtgtggaag agatttcacc caacatccgc tattgtgcat 780
ataatattgg ggaccagtca gccatcaatg aactcatgca gatgagattg aggtctgggg 840
gcaactgagg tctcttggct gcaaaaattgg aggccttgat cactcagact cgagccaaaac 900
aggcagctac catgagtga gtggagtgg gagggagaac ggttccagtg aagattgaca 960
aagtgcgcat tttcttatta ggactggctg ataacgaagc agctattgtc caggctgaaa 1020
gcgaagaaac taaggagcgc ctggttgaat caatgctcag cgagtgtcgg gacgccatcc 1080
agggtggttc ggaggagctc aagccagatc agaaacagag agatttatatc cttgaaggag 1140
agccagggaa ggtgtctaata cttcaatact tgcatagcta cctgacttac atcaagctat 1200
caacggcaat caagcgtaat gagaacatgg ccaagggtct gcagagggct ctgctgcagc 1260
agcagccaga gcatgacagc aagcgctcac cccggcccca ggacctgatc cgactctatg 1320
acatcatctt agagaatctg gtggaattgc tccagcttcc tgggttagag gaagacaaag 1380
ccttccagaa agagataggg ctcaagactc tgggtgttcaa agcttacagg tgttttttca 1440

```

```

ttgctcagtc ctatgtgctg gtgaagaagt ggagcgaagc ccttgctcctg tatgacagag 1500
tcctgaaata tgcaaatgaa gtaaattctg atgctggcgc cttcaagaac agcctaaagg 1560
acctgcctga tgtgcaagag ctcatcactc aagtgcggtc agagaagtgc tccctgcagg 1620
ccgcagccat ccttgatgca aacgacgctc atcaaacaga gacctcctcc tcccaagtca 1680
aggacaataa gcctctgggt gaacggtttg agacattctg cctggaccct tcccttgtca 1740
ccaagcaagc caaccttggt cacttcccac caggcttcca gccattccc tgcaagcctt 1800
tgttctttga cctggccctc aacctatgtg ctttcccacc ccttgaggac aagttggaac 1860
agaagaccaa gagtggcctc actggataca tcaagggcac ctttgattc aggagctaac 1920
caggctcttc ctcgggggcg ggggagattc tgactcttaa tctgtattgt gagaaaatcc 1980
cagcaagttc catgatatta aatccaggtc tgcattggcc cggggcaaga gtttaacatc 2040
ttcgccctg cattcctaca tcttgtgtct gtacacgttc ttaagcagcg tgtcaggaga 2100
gcacctgtt gtcttctggt aaatgtgtgc agggcatcc tgtctcctgt acctcctggg 2160
aaagggcgcg ctgctgtctg gtgccctgtg agctgtgatt gattgccttt ggtagtaat 2220
gcgttcagga gtccacacca ggcacagatg gggccttgaa acgctttgtc atgcttcttc 2280
agtaccatgg atttgaaatg aactcatcct tgctgtgagc atccaggagc ccttgagaag 2340
ttatctatg actatgaaac tggcaacgtc acccagaat tacggtcagc cttattcccc 2400
ttcacctccc agtgaacgct aagaagtctc agacaagcag agagctctat ttttagaaga 2460
aatatgttac actcagaaat gatgaaacca aatcttata taaaaggcaa agatgacgga 2520
gactgtgccc atttcttata tgccctccct catgtccagt ccccgttctc tcctcgggag 2580
cctagttgcg tgaagccggt gaggtcaagt gtaacctgac ttaccggcaa ctagggtagg 2640
ctgatgccag atacacatgt tagaggcact atttttcagg acttcccaat gtgtaatttt 2700
tagatgccat tataatttaa tccccttctg taccctccgt ttttcttag tcatcccttt 2760
tcacttctat tataacatca ataatagaag tcacaaaaaa aatgtaagaa agcaaggaaat 2820
aaaaagtgatt taaacatgta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2880
aaaaaaaaaa gggggggggc gggcacgcaa aaaaatacac ccccgcgag gggggcaacc 2940
aaccgggtcaa cgaccgcca cagagcaat gtttatatgg tagaaaaagg ggagccccc 3000
aagaagaggg gagctgacta taattaacaa gctcgagacg aacggcagga gcagcgcggc 3060
gtataaacia gacacgcggc gggcgcgcg ggggcaaacc catctgggac cagcaccggg 3120
gagacactct cgtgggagaa aagaaccca ccagacctct cggggggggc ggggcacaaat 3180
tcaagtgggc agcaaccccc caccgcccg agaagaagat tatcagaagc cccagggag 3240
cggaacaaat aactaacac tggcaacggc cgctcatagg ggggggtcga accacaaccg 3300
cgaaaatgat cacgcgcgac gaaaaaattg gggaccgcag gagaatcaga tactcggaat 3360
aataattttc ccnnnn

```

<210> 776

<211> 374

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(374)

<223> n = A,T,C or G

<400> 776

```

gcgccgagg taccactgcc cacattcctg gttgctggag ggagcctggc cttcggaacg 60
ctcctctgca ttgccattgt tctgaggaat cattctgcct gaaaaacgtg tggtagcctt 120
aatggcacag cctggcttga agatgaggca ggagtgggaa agtgcccaat ccaagaagca 180
aggagggaaa ctgctcacac cccttccaga agcaatggaa ccgtctcccc tctcaccacc 240
aaggtcacac aggaaaggcc accagcagga acatcatatt gatgctaatt gccccctccc 300
catttccctg ttgccatctt taccctgaa ctactgtacc tgcccgggcg gccgctcgat 360
gcgttgcgct cacn

```

<210> 777

<211> 864

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(864)

<223> n = A,T,C or G

<400> 777

```
tcgacccacg cgtccggaac gtctaaccctt tcgtccctaa atattgccga tacttgacct 60
acgcaagaga caatgtcatg tgattcagcc taatatctca gaggatgcag cattcaaggt 120
tctatcttgg aagcagagac tgtgccctca ccagatgctg aacctgctga gcacctgat 180
cttccacttc accttcatca gaactactgg ggctgtggct gagatgtcac atggcagata 240
ggatcacaaa tttctgttgt atctggatgg agatcagcag gaggatctat gggtgagaag 300
aagcacagtt acagatggat tctagagcct gcttgctgac acaggcttgc aactgcggac 360
tttataagct tagtttttaa tctgctatca gctagcataa taccataaat gcataaaaaa 420
ctaagtattc agtcttacga gaaatgctat cttgacctga ccctttctcc aaataaattg 480
acaaaatatc tcatcgtcta ggatgccaga cagaaatacc agttgcaatg ttttgttgca 540
taaagtttat cctaatttaa attagtggca tataaagtca tcatcttgct tgaacaaaca 600
tcttattaaa ttgagcatgt cttttatccc atgaaatgaa attaatTTTg agatagttat 660
ttttcagttg gaaatttatt gagttgatag aaaacaagtt atatagtctt ccaaagaata 720
tgttacatcc atttgcattt tgtttttctt cagcaatgtt tggtttttag aaaatcttac 780
aagttaaata tactaatgta gaaattgaaa gaaaataatc agagatagag caataaattt 840
gcaataaag annnnnnnnn nnnn 864
```

<210> 778

<211> 956

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(956)

<223> n = A,T,C or G

<400> 778

```
gggtccggga ggaggaggct gggcatcctg agccaacagg gaggaggaga cgccatgccg 60
ggggctggga tcaccatgcc ccttgcccggt ctgcacacct gctgctgtct gtaaccccc 120
agcacctccc gcaggcctgg acgtcttctc cctctcctta gcccaggag cgtgtttcag 180
gaactctcct cacctctgtg tcttgtgttt tgcagtgtac agggccaaag cggtcagtga 240
gaaggaagtg gactctggaa acgacattta tggcaaccct atcaagagga tccagtatga 300
gatcaagcag ataaagatgt tcaaagggcc tgagaaggat atagagttta tctacacggc 360
cccctcctcg gcagtgtgtg gggctctcgt ggacgttgga ggaaagaagg aatatctcat 420
tgcaggaaag gccgaggggg acggcaagat gcacatcacc ctctgtgact tcatcgtgcc 480
ctgggacacc ctgagcacca cccagaagaa gagcctgaac cacaggtaac agatgggctg 540
cgagtgaag atcacgcgct gcccctgat ccggtgctac atctcctccc cggacgagtg 600
cctctggatg gactgggtca cagagaagaa catcaacggg caccaggcca agttcttcgc 660
ctgcatcaag agaagtgcg gctcctgtgc gtggtacccg cggcgcggcg ccccccaagc 720
aagagtttct cgaacatcca ggaccccata agcaggctcc aacggccctg tggcaaatg 780
gcaaaaaaag ccttcaggt ttogactggg ccagctctaa tcccttctgg aaacagatga 840
ataaacctcc atccctggct cctttacaac acacactcac aaaaaccggg ctctttcggg 900
ggaaagctga aggcacgggt tttcccctt gaaggagcgc ctaggttatt atgcnn 956
```

<210> 779

<211> 5465

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(5465)

<223> n = A,T,C or G

<400> 779

```
nngaggacac ttgggacttg cctggcgact ttggccggac ttttgctaac tgcggcgggc 60
gagacgttct cagggtggctg cctctttgat gagccgtata gcacatgtgg atatagtcaa 120
tctgaaggtg atgacttcaa ttgggagcaa gtgaacacct tgactaaacc gacttctgat 180
```

ccatggatgc	catcaggttc	tctcatgctg	gtgaatgcct	ctgggagacc	tgaggggag	240
agagcccacc	tgctcttacc	ccaacttaag	gaaaatgaca	cccactgcat	cgattttcac	300
tatttttgtgt	ccagcaagag	taattctcct	ccggggttac	tcaatgtcta	cgtgaaggtc	360
aataacgggc	cactggggaa	tcctatctgg	aatatatctg	gagacccaac	acgtacatgg	420
aacagggcag	aactggccat	tagtactttc	tggcctaact	tttatcaggt	gatttttgaa	480
gtgataactt	ctggacatca	aggctatctc	gctatcgatg	aggtgaagg	gttaggacat	540
ccatgtacca	ggactcctca	cttctcgctg	attcagaatg	tgggaagttaa	tgctggccag	600
tttgctacct	tccagtgcag	tgccatcgcc	aggaccgtgg	caggagacag	gctctgggta	660
cagggcattg	atgtgcgaga	tgctcctctg	aaggaaatca	aggtgaccag	ctcccagcgc	720
ttcattgctt	catttaatgt	tgtgaatacc	accaaagcag	atgctggaaa	gtaccgctgc	780
atgattcgca	ctgaaggagg	tgttggaata	tcaaactatg	cagagttggt	agttaaagaa	840
ccacccggtc	ctattgcccc	acctcagctc	gcctctgtag	gagccaccta	cctgtggata	900
cagctcaacg	ccaactccat	caatggggat	gggcccattg	tggcccagaa	ggtggagtac	960
tgcacggcca	gtgggagctg	gaatgaccgg	cagccagtgc	attccacgag	ctataaaatt	1020
ggacaccttg	acccagatac	agaatatgag	attagtgtgc	tcctgaccag	gccaggggag	1080
ggtggcactg	gctctcctgg	tccagctctc	aggacaagaa	caaagtgtgc	tgatcccatg	1140
cgaggcccaa	gaaaactaga	agtagtggag	gtcaaactct	ggcaaatac	tatccgctgg	1200
gagccatttg	gatataatgt	aactcgttgc	cacagttata	atctcactgt	ccactactgt	1260
taccaagttg	gaggacaaga	acaagtgcga	gaagaagtaa	gctgggatac	agaaaattca	1320
cacctcaac	acacgatcac	taacctgtca	ccatacacca	atgtcagtgt	gaaactgatc	1380
ctcatgaacc	cagagggccg	gaaggaaagc	caagaactca	tagtgcagac	agatgaagac	1440
ctcccagggtg	ctgttccac	tgaatccata	caaggaagta	cctttgaaga	gaagatattt	1500
cttcagtggg	gagaaccaac	tcaaactat	ggtgtaatac	ctttatatga	gatcacctac	1560
aaagcagtca	gttcctttga	ccagaaata	gatttatcca	atcagagtgg	aagagtttca	1620
aagctgggaa	atgaaaccca	ttttctgttt	tttgactgtg	atccggggac	cacatactcc	1680
tttaccatcc	gagctagcac	agctaagggt	tttgggcctc	cagcaacaaa	ccagttcacc	1740
accaaataat	cagcaccctc	tatgccagct	tatgaacttg	agacaccttt	gaatcaaact	1800
gacaataaccg	tgacagtcat	gctgaaacct	gccacacagc	gaggagcacc	tgctcagtgtc	1860
tatcaaatag	ttgttgagga	agaacgtcct	cgaagaacta	aaaagacgac	agaaatctta	1920
aagtgtacc	cagtgcacat	tcacttccag	aatgtctctc	tgctgaactc	acagtactac	1980
tttgctgcag	aatcttctgc	agacagcctc	caagctgcgc	agccttttac	aattgggtgat	2040
aataagacat	ataatggata	ctggaacact	ccccttctcc	cctataaaaag	ctacagaatt	2100
tatttccaag	ctgctagtag	agccaatggg	gaaacaaaaa	tagactgtgt	ccaagtggcc	2160
acaaaaggag	ctgccactcc	gaaaccagtc	ccagaacccg	agaaacagac	agaccataca	2220
gttaaaattg	ctggagtcac	cgcgggcatc	ttgctgttcg	tgattatatt	tcttgagggtt	2280
gtgttggttaa	tgaagaaaag	gaaactggcc	aagaagcgga	aagagaccat	gagcagcacc	2340
cgacaggaga	tgactgtgat	ggtgaactca	atggacaaga	gctatgctga	gcagggcaca	2400
aactgcgag	aggctttctc	attcatggac	acgcacaatc	tgaatgggag	atctgtgtct	2460
tcaccatcgt	ccttcacaat	gaaaacaaat	acactgagca	catcggtgcc	taattcctat	2520
taccagatg	aaaccacac	aatggccagc	gataccagca	gcctggtgca	gtcccatact	2580
tacaagaagc	gagagccggc	cgacgtgccc	tatcagactg	ggcagctcca	ccccgccatc	2640
cgggtggcag	acctccttca	gcacatcaca	cagatgaagt	gtgcggaggg	ctacggcttc	2700
aaggaggaat	acgagagctt	ctttgaaggg	cagtctgcac	catgggactc	ggctaagaaa	2760
gatgagaaca	gaatgaagaa	cagatacggg	aatatcattg	catacgatca	ttcccagagt	2820
aggctgcaga	caatagaagg	agacacaaac	tcagactata	tcaatggcaa	ttatatcgat	2880
ggttatcatc	gacccaatca	ttacattgct	acccaagggc	caatgcagga	aaccatctat	2940
gacttctgga	ggatgggtgtg	gcacgaaaac	actgcaagta	tcatcatggt	gaccaatctt	3000
gtggaagtgg	gaagggtcaa	atgctgcaaa	tactggccag	atgacacaga	gatataataa	3060
gacattaaag	ttaccctaata	agaaacagaa	ctactggcag	aatatgtgat	aagaacattt	3120
gctgttgaaa	agagaggtgt	gcatgaaatc	cgagagatca	gacagtttca	cttactggc	3180
tggccggatc	atgggggtccc	ctaccatgcc	accggcctgc	tgggattcgt	gcggcaagtc	3240
aagtccaaga	gcccgcgccag	tgcaggccca	ctggtgggtgc	actgcagtgc	tggtgcagtc	3300
aggactggct	gtttcatcgt	cattgatatc	tgttggtgaca	tggccgaaaag	ggaagggttc	3360
gtagacatct	acaactgcgt	caggagctg	cggtcacgga	gggtgaacat	ggtgcaaaac	3420
gaggagcagt	atgtgtttat	ccacgatgcg	atcctggaag	cctgtctttg	tggggacacc	3480
tctgtgcctg	cttcccaagt	taggtctctg	tattatgaca	tgaacaaact	ggatccacag	3540
acaaactcaa	gccagattaa	agaggaattc	cggacgctaa	acatgggtgac	accaacgctg	3600
cgagtagagg	actgcagcat	cgcactgttg	ccccggaacc	atgagaaaaa	ccggtgcagt	3660
gacatcctgc	ccccagaccg	ctgectgccc	tctctcatca	ccatcgatgg	ggagagcagc	3720
aactacatca	atgctgccct	catggacagc	tataaacagc	cttcagcttt	tatagtcacc	3780
cagcatcctt	tgccaaacac	agtgaagagc	ttttggagac	tggctcctgga	ttatcactgc	3840

```

acatccgtag ttatgctaaa tgatgtggat cctgccagtg tgtgtccaca gtactggcca 3900
gaaaacggag tacacagaca cggcccccac caggtggaat ttgtctctgc tgacctggaa 3960
gaggacatca tcagcaggat attccgcatt tacaatgccg ccagacccca agatggatat 4020
cggatgggtgc agcaattcca gticcctgggc tggccgatgt acagggacac accagtgtct 4080
aagcgctcct tcttgaagct cattcgccag gtggacaagt ggcaagagga atacaatggc 4140
ggggaaggcc gcaccgttgt gcactgcttg aacgggggag gccgcagtgg gacgttctgc 4200
gccatcagca tcgtatgtga gatgctccgg caccagagaa ccgtggatgt ctttcacgct 4260
gtgaagacac tgaggaacaa caagcccaac atggtcgacc tcctggatca gtacaagttc 4320
tgctacgagc tggccctgga atacttgaat tctggctgat ggtgtaaaca gctctgaaa 4380
caatcccttt cataccacaa agccaagacg ttccatggta tttgtgcaa agagatgaag 4440
acttctcaat atgcttattt tgctttgcat aattggctct ttttaagagc ccaagaaagt 4500
gtttctaaaa ttgcttgcac tgcccaatcc cagtaatgct gctgcctgac agaaacacac 4560
acacagccac agttgccaaa tcccgtaact cttgccaccg gcttcctaga gcagcgtaga 4620
cagctggtaa actgaagagc acaactatat tcttatgaag gaatttgtac ctttggggtg 4680
ttatttttgt gcccgtagac ctcggttattg ttacagctga gtgtatgttt ttgttctgtg 4740
gagaatgcta tctggcatta tggtaatata ttatttttag taatatgtgt actttaacat 4800
gttgcataat atatgcttat gtagctttcc aggactaaca gataaatgtg taatgaacaa 4860
agatatgttg tatgagtcgt cgtttctgtc agatttgtat tgtttccaag ggaaaagctt 4920
gggggaggac tcagttcaca aaatgcaaaa ctcaacgatc agattcacgg acccagagct 4980
tttccatgtg tttatattgt aaatatTTTT gatctcatca aattatttat tcattaaaaag 5040
aaatTTTTgt caaacacaaa caacacacac cccaccaact accccacaca cagtaaacag 5100
acactaaaaa cacaaagaca gaaccagaa caacaaaacg gggccgcgcc acaacaccac 5160
ccccggggcc cacacacaac agccactcgc tcacgcaggg cgacaccgcy ccgcctatat 5220
acagagcgcy cgccttcac cagcgggag gaaaagagac ccagccgcag cgagccacac 5280
ctcgctcggy gcaagagaa acacaccgac gaacgatgga cagcactaaa acacggcttc 5340
accaccaaac tggcccgagt gcgtatacaa cccgatcggy agtccaagct gagagctcgt 5400
agccgaaaga gagaccaaca gcgacgatcy agccacaaa ctgacaagcc aacaagacat 5460
annnnn
5465

```

<210> 780

<211> 1596

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1596)

<223> n = A,T,C or G

<400> 780

```

nnacatatat tgtatTTTTt attctctttt gatgtcttct gttttagaag caattctcaa 60
tttaaaaacg acaaaaacca ataggaacaa aaatgataaa acttgaaaac aacaacaaca 120
aaaaaagctg ctgaaccaga ggttcagtat gagaggaatt gcaaagaaca gttttgaaat 180
ctctaggcct tagtcagata gaaattacaa atcaaaaata taatcagact ccctgagaca 240
ctaacactag gaaaatgaat aaagttaact tggagcagcc caagaacaaa cttataaagt 300
catgatggta ttttatgtgc aaaactgctt tataagtact ataagactat tacaggattt 360
accagtgcct tcagtgtaaa ctccctggcc caccatgta aagtgtacat cgagccctca 420
gggtccctga ctggttctcc agccgcccc taggctatga gcatccccgt tccctacaca 480
aaggaccact gggatttatt aaaggttatg ccttgcaactg cagtacaaag ttttatatga 540
tagtgtcttg ctgcctgttt ctacaaaagc caagggtgta acattaaatg caattttgca 600
aggggctgag gtgatgtggt ccaagtatgt aatcacttca gggagccata tgtgaccttc 660
atacactgtt gataatggcc atgcctccca gtcaggcctg tgacacctgc tggacagcag 720
gcattccaag gccctaagc actgagttag ctggtaaagg ttaaggaaaa agctgtattc 780
ttactacttt actccaaggt agtaaagtgt atggaagatg tacctgacag aaataactta 840
agcatcccct gagaatgacc ctgtatggca gatgcatctg acagcaataa cttagaagat 900
gaggggttgc acgtggaggc tgctgagggg aggggtgctga gtgaaagtgc tatgtaaact 960
gcatgctttt tataagtggg tgcaattctg tccagcccgcc ggccactgga ccaccctgta 1020
agattcccca aataaacctt atgtttcctt cactagctcc aggtctcttc tttggccttc 1080
tgaacctggt gccatcccta ctgaagttaa cagaggtctg gcccaacctc agggcatcat 1140
tttttaaagt cccatggaaa aaactcccag cagagttcag catctgggaa cggttggcag 1200
gccccacagg aaccacagct tctgccttta tgatgctgag aaacacttca ctgttgactt 1260

```

```

ccccatcta agggggccag agctaaattt tgggcagctg tgtttatcct ggggggtccac 1320
atatttgcac cattctttct tctcatcgtg atgttctacc ttgttggtac tgttctcttc 1380
cttctttgtg tgagttcctg ttgtgagctt ccccttggtc actgaggtaa tgtagccaaa 1440
caagggttaa aagccccag taagccgggt gcggtggctc atgcccgtaa tctcagcact 1500
ttgggaggcc gagggcggca gatcacctga ggtcgagagt ttaagaccag cctgnccaac 1560
atggagaaac cccntctcta cnnnnnnnnn nnnnnn 1596

```

<210> 781

<211> 1596

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1596)

<223> n = A,T,C or G

<400> 781

```

nnacatatat tgtattttta attctctttt gatgtcttct gttttagaag caattctcaa 60
tttaaaaacg acaaaaccaa ataggaaaca aaatgataaa acttgaaaac aacaacaaca 120
aaaaaagctg ctgaaccaga gggtcagtat gagaggaatt gcaaagaaca gttttgaaat 180
ctctaggcct tagtcagata gaaattacaa atcaaaaata taatcagact ccctgagaca 240
ctaacactag gaaaatgaat aaagttaact tggagcagcc caagaacaaa cttataagtg 300
catgatggta ttttatgtgc aaaactgctt tataagtact ataagactat tacaggattt 360
accagtgcc tcagtgtaaa ctccctggcc caccatgta aagtgtacat cgagccctca 420
gggtccctga ctggttctcc agccgcccc taggctatga gcatcccggt tccctacaca 480
aaggaccact gggttttatt aaaggttatg ccttgcaactg cagtacaaag ttttatatga 540
tagtgtcttg ctgcctgttt ctacaaaagc caagggtgta acattaaatg caattttgca 600
aggggctgag gtgatgtggt ccaagtatgt aatcacttca gggagccata tgtgaccttc 660
ataactggt gataatggcc atgcctccca gtcaggcctg tgacacctgc tggacagcag 720
gcattccaag gccctaagc actgagttag ctggtaaagg ttaaggaaaa agctgtattc 780
ttactacttt actccaaggt agtaaagtg atggaagatg tacctgacag aaataactta 840
agcatccctt gagaatgacc ctgtatggca gatgcatctg acagcaataa cttagaagat 900
gagggttgcc acgtggaggc tgctgagggg aggggtgctga gtgaaagtgc tatgtaaact 960
gcatgctttt tataagtggt tgcagttctg tccagcccg gcgactgga ccaccctga 1020
agattcccca aataaacctt atgtttcctt cactagctcc aggtctcttc tttggcctct 1080
tgaacctggt gccatcccta ctgaagttaa cagaggtctg gccaaccta agggcatcat 1140
tttttaaagt cccatggaaa aaactccag cagagttcag catctgggaa cggttggcag 1200
gccccacagg aaccacagct tctgccttta tgatgctgag aaacacttca ctggtgactt 1260
ccccatcta agggggccag agctaaattt tgggcagctg tgtttatcct ggggggtccac 1320
atatttgcac cattctttct tctcatcgtg atgttctacc ttgttggtac tgttctcttc 1380
cttctttgtg tgagttcctg ttgtgagctt ccccttggtc actgaggtaa tgtagccaaa 1440
caagggttaa aagccccag taagccgggt gcggtggctc atgcccgtaa tctcagcact 1500
ttgggaggcc gagggcggca gatcacctga ggtcgagagt ttaagaccag cctgnccaac 1560
atggagaaac cccntctcta cnnnnnnnnn nnnnnn 1596

```

<210> 782

<211> 1325

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1325)

<223> n = A,T,C or G

<400> 782

```

nncacactgc ataatttttt gcattagcat gctgttggtt ctacctaaaa tgaccgggggt 60
ccttgccctt tgcttcccat agagattgtc ccaactccat aggtccatag tcacaaatga 120
ggacagcttt acatgtaaca tgaatctcct cagtatcaca cactgccagg aaacttgggg 180
gcaacctgca gaacaaaaag cttagcgtga aaactaaact ggccaggagc ggtggctcat 240

```

```

gcctgtaatc ccagcacttt ggaaggggag gccgagtcgg gcggatcacc cgaggtcaga 300
agttcgagac ccatctagcc aacatggtga aaaccatctc tactaaaaat acaagaaaat 360
tagctgggtg tgatggtggg cacctgtaat ccagctact cgggaggatg aggtaggaga 420
gtcgcttgaa cccaggaggc agaggttgcc atgagccgag atcatgccac tgcactccag 480
cagcctgggt gacagagcaa gactccgtct caaaaaaaaaa aaaaaaaaaa aaacccatct 540
acattgaagt tgacacatgg aaggcttcca gccctggtcc tgaacatta taggaaagct 600
gagtggcagc ttgcaggtat tgtactgacc tgcgctgtca aagtctttcc aggttgctct 660
tgcctgagct tggagatccc atggctatga ccagccacag cccttgaaa catgctgttc 720
tgtcccacca ggcagcccc agttagtctc caaaagaaac ctaccaggtc ccctgcattt 780
catcactgtc attacccccg aagtccctga tcaccagaaa aatcaccttc tgtcatctta 840
agagtcttca tctggacagc aaaatgagaa caactgtcat gaacaatttt attgttccca 900
tcatttggtc ctcagaatga tacaatctg accagccttt ggtccaata ctgatgcctt 960
aagctatcag ttaagctgtg tcacatccca gctggatttt ccagtacga gtctcatgct 1020
ggttaactgt acatgcaaac ccccaaccgt tctgctgttc tgtggaaaca agcccatatt 1080
gataaagggt tctggctaca gctgaaaggt ggcaggtaaa atggaactgt attttcccaa 1140
aatgttcagc tgtgcaggat acaaacagaa cggcgaccgt caaggaaaac tgtcactctg 1200
ggctcctttt tgaccacagc agctatgcgg aagcagctgc agcttcgata agggccaagg 1260
ggcaattcag atcccagggc ggccgcctaa agcctcacct gtccatcatt actacctgct 1320
taagt                                     1325

```

<210> 783

<211> 1842

<212> DNA

<213> Homo sapiens

<400> 783

```

catagtaagt gaggagtaca tttcttggtc ttctcccttg accactccaa gtctctgatc 60
taccagagat ggcagtttat ttctcttgga agaagccagt aatgaacacc tgtctgttgg 120
ctttgttcac agtcatggca gggggtctgt gtactgagga tgtcttcatt ttaagctcct 180
cttccactatc tgtgcaggat tcacctcgtg ccgaattcgg cacgaggaac tagtctcgag 240
tttttttttt ttttttttta attcttcagc taaaacagcg gaagaggtga tttattatat 300
ggttggttaca ctggccaca aataaacaca gaaatagtcc agaatgtcac aggtccaggg 360
cagaggacc aacatgggca ttttgtttat gagcaagggt ggtctcagag gtgatcgcg 420
atcagagggc gatgaagttc tagatccatt gagacaagct ctacacagta gcatgcagtc 480
ccacaacttg taccagcatc ccagcgtct gccattccat gtttctgctc ctgtggcctc 540
cacggtgcaa caagctagcg gtttacttgg acctctgcct catctttctt cttttgcgct 600
tcagctcgcg cattcgcttc ttctccact tggctctcgg ccttagcgcc atttttttgg 660
aaacctctgc gccatgagag ccaagggtgag gggttcctgg tagtaagctt gggaggtagg 720
agttggcgag tagtagcggg gagacgaagt ggaggaagaa gcgaatgcgc cagggtgaa 780
gcgcaaaaga agaaagatga ggcagagggt caagtaaacc gctagcttgt tgcaccgtgg 840
aggccacagg agcagaaaca tggaatggcc agacgctggg gatgctggta caagttgtgg 900
gactgcatgc tactgtctag agcttgtttc aatggatcta gaacttcata gccctctgat 960
cgccgatcac ctttgagacc caccttgctc ataaacaaaa tgcccatgtt ggtcctctgc 1020
cctggacctg tgacattctg gactatttct gtgtttatgt gtggcgaggt gtaacaacca 1080
tataataaat cacctcttcc gctgttttag ctgaagaatt aaaaaaaaaa aaaaaaaaaa 1140
aaaaaaaaaa aaaaaatagg gggggcgacc tccgccggac aaaagccggc agcgacgcgc 1200
caaaataggg gccggaaacc aggacgctgg ccccgacagc ggcaagcagc agaccactgt 1260
cccaacaagg ggggtaacgg gaacacacca accggagctg gaacacaggg gataagggag 1320
taaccacaaa taggccaaag gaaagagcag caagaacccc ctggtggaca atgaaaagga 1380
ataagaggcc aagatatgaa cgctaccgga aagaccgag agtgaccaa caaggaaaag 1440
aaaataccag aggggaagct cccaacaagg gacaggctat cacaggagaa tgaacagaat 1500
ccaagacaaa gcagggctca agagagaacc cgtgagtggt ccatacacia ggatcacagg 1560
ccaccacagc gggacactaa ggaccaagca cacacaacgc gggacaacia aaaaatcgag 1620
cacagacca gggggcaggg accccaaatg ggagagatgg caacgaagcg acaccacag 1680
gacgcgacaa gaatatgacg ggccgcacag acggccaaa caggaggaga cacaaaaaaa 1740
gaggaggcac aaccgcggga caaccaccga gaaagaaaga gcccatatgg agctaaccac 1800
acgacatacg acgaaggacg caccgataga gtacttcacc aa                                     1842

```

<210> 784

<211> 2113

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2113)

<223> n = A,T,C or G

<400> 784

```

nngcgtata tgtagggaca atattactat atattgaact gaaagttctt acataatcaa 60
tgtcaagttt tgtcttattt tgttttgttt gtttaaacca gtgtaggaaa taaaagtgat 120
gatattttaa atagttctca gttgaagcag agaaatgcca ctgtgctagt tgcccaaatg 180
ttgtatctat tttaaatagt ttaagctgat gtgtatggga gcctaaacaa gtgtagtata 240
ctgaacttct cccattaatt gctattcaca attgggaaaa gtgtggagat tgggttcctag 300
tgagttttgt ggcctactcc acatttggtc ttccttcctc agggtagtg atgaaaaaaa 360
gtaaatatct ttttcatatg tccattagaa tgtatgaaaa aaatcatttt aactaaaagc 420
aaaagaattt tatcttatat ctaaaaata tataacttac tatatgtttc agttgctctc 480
tgaacaaaaa ttatcttcaa tttaatatgt ggaatgtgtt ttctagcttt ctttgaatta 540
tgtatggcaa cctggtttag cactggcatc ctgaacagtt aagagtcact gggaaattat 600
tgtatttctt tataaattta ctgtcatatc aattgctgga aaatgctatg atttttctat 660
tattaccttc taagttgtat tctctcttac actgtagcct caactaaggc aattctgcta 720
tgtttgttct tcactatgat ttactgtgtg ccaaaggagt tttgacaggg tacagagtat 780
tttactaaaa gtatttttaa atgtttctca tgtgatttct gtaccttctt cctcctgccc 840
cttttgcttt tttaaagaaa ctggggaagg atttatgaat acaccaccac cagagtggat 900
aatgcttaga attctttatt ggtggcccta ctatggtgat gatctagaac tgacttactt 960
caggacagaa gaaaaaacia tcacaccctt aacctttaag ccagttagat caggggggtt 1020
caacaattgg gttaaacttt gggatatacat tgggaagcacc agggcatgtt tgcttttttt 1080
gtttacgtgt ttgccagacc actcgggagg ctgaggcagg agaatcgctg gaacctggga 1140
tgtggagggt gcagtgagcc aagattgcac cactgtactc cagcctgggc aacagaggga 1200
gactccatct agactccatc tcannnnnng tatgtcatga ggataaatct ccagggaata 1260
ttctaaggac tagaactaca taagaatgtc ctaaagcact gtatctaagc acttgaaaag 1320
aatgggactt ttcggtttta gggagataac tattagcaac cacacaatat gttatcttta 1380
tggatgaata acttctggta atgacacagt gtcttacagc tacatcattt ataaaatcat 1440
gtgtcagttt tcacacagcc tgcacatcgt tctgacatgc cctttttttt cctggagatt 1500
tatcctcatg acatacaagg ggacaaaaat atttattggg actgtctttg aatttagtag 1560
aatcactgta tcattaacag tttggggaag tactgctttg cagtccttta tttgaaaact 1620
taggtctagc tgtgttttgc atcaaaattt ttgagctatt caaaaactaa taggatctgt 1680
gtaaaatatt tcaactaaaa ctactaaaaa aaagtctggg atggcagctc attatcaaat 1740
atactcctat ttttgtggtg atttatgaac atccccacta agtataacta aagatcataa 1800
agagcctcag atcaagtttg gtcaggtttt gtcaccaagc tttgtaaata aactggtttt 1860
catagctttt tggagatgag aattgaggat aagaaattgt gtctctgtcc tttttttttt 1920
tttttgtaa gtcttacatg tattttactg taacatcttt tgaattggat atttaactaa 1980
ttcaacatat ttttcctctt tgcagaatgg gcagttcatg ttaaaatcac ttttcatgga 2040
aagagctcta tgaacagca taataaaact gcctacctag cagcaaaaaa aaaaaaaaaa 2100
aaaaaaaaat aan 2113

```

<210> 785

<211> 3024

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(3024)

<223> n = A,T,C or G

<400> 785

```

cgcgctccgc ggaggagccg ggaactggagg ctgccgaggg ggccggcgcc cgagtcgggg 60
attcggccag tgggtgctgag cgagtgctgg accagcggcc gtcctgtgca cctggcctgt 120
gcgcgtgccc tgcgtcggc ttcaccaga ctaaggcgcg ggagctgag ggaacaggcg 180
gggtggcgcg agggagaccg ggaggcacgg gcgcctgtg cgcgaggagg gtgaaggcgg 240
ccggggcccg gacgccatgt ccatggagga ccccttcttt gtggtgaaag gagaggtaga 300

```



```

gaaagcagtc aacactgcc agggattgtt tcagagatgg acagagctcc tccaggaccc 360
ctccacagca acaagggaag aaatcgactg gaccaccaac gagctgagaa ataacctccg 420
gagcatagag tgggatctag aggacctga tgaaccatc agcatagtgt aagcaaattc 480
tagaaaattt aaccttgatg caactgaatt gagtataaga aaagccttca ttacaagtac 540
tcggcaagtt gtcagggaca tgaaagatca gatgtcaact tcatctgtgc aggcattagc 600
tgaaagaaaa aatagacagg cactgctggg agacagtggc agccagaact ggagcactgg 660
aacaacagat aaatatgggc gtctggaccg agagctccag agagccaatt ctcatctcat 720
tgaggagcag caggcacagc agcagttgat cgtggaacag caggatgagc agttggagct 780
ggtctctggc agcatcgagg tgctgaagaa catgtcccag cgcatcgag gggagctgga 840
ggaaacagga gttatgttg aagatttctc tcacgaattg gagagcactc agtcccggct 900
ggacaacgtg atgaagaaac ttgcaaaagt atctcatatg accagtgatc ggcgccaatg 960
gtgtgccata gccatcctct ttgcagtcct gttggttggt ctcatcctct tcttagtgct 1020
gtgacggcgg ggcctctggg tgcgagttcc tcctgcatat gaaccgaggg gaggaggaga 1080
agctgagcac gtgtgacatt gccgtctact cacattccta tcctggaaac atactgctgc 1140
actgactttt ctccgtgtga cccacaaatt gacatggctc ctccatccca gcgctggaag 1200
ggccagtggg aagaggaaat agatgtctgc actcctggct gcagctggac aacagaagcc 1260
ccatgccgcc tgtccagttc ggaggagaac tagctgtgc cttgccttcc gggacctcgt 1320
ttgctgagga gggacttaca gactccactg gtgttttgct gttgctcatt ccatgcatct 1380
ttggcagctc ttttcttctg ctccagacct tccccgtgct cagacagtgc accgctgtcc 1440
catctaaaga aacctgtcag gaatacgagc ttctgggtat gtttcgtttc ccattgctgt 1500
agcatttctt atccccgtag agctgatgat tattgaggac agaaggctca gaaacagttt 1560
gtgacagaaa atgcagtgtt tcatttttca gggataaatg ctaagataaa attgcttttc 1620
caggtcattt tttttgtgg taagaataac taatggaaaa taatgaaaca ccctgggggt 1680
tgggggtgct aacaacttgt ggctttaact gacaggagca attaaaaaga gcaagagggt 1740
tctgcattgg catagcttag ggaagggtta atgatgtcgc cacaggtcag ctctgatcc 1800
ttgccgactt gatgttgctg taccagggct tcctcccag aggtgcagct tgcgttttga 1860
gggtgattgc tacatatgtt gttgctaaac agctcagtaa cacacttgaa tgaatttga 1920
taccagattg tcctcattac agttctttta ctcttagggc actctacact gggggttggg 1980
gttgggagtg gttagtacat ttattacatt tattaagaaa cgtaatgaca taaaagggtta 2040
gctctgggcc agacttctct tactctgtgg gtaatggcaa ggatgtgtag gtaaaacttg 2100
ttcttttttt tccctaagat gacagcttga ttttatcatc tgcagtcaaa taactgagcc 2160
aatccaaatt taaatgatag atgctttaat tgagttttta agtagctgaa actgctgaga 2220
cactaaactt taaccttctg atgacttttt aaaatgcctc aaatgtgcac atgtatatag 2280
gatattttta taacttccct gatgaataat ctgatattaa agtagtattt ggaccagag 2340
ccagaactcg gtggtggagg ctgctggctc ctctcacca ccttcttttg cacttggaaa 2400
gaacagcaac atctggatag agttctagct ttgacttctc atttcttgt ctttttgggt 2460
gcattctca gcacactttt tttttaaac tttttgtttt gttttgtttg tatttcatgt 2520
ggttttattt gggggttttg gttttttcac cttttttgt gatttgcaat gatgtgctt 2580
cccagctaac ttttgaattg cactttttta taaatattct taacaattaa aaaaaaaaaa 2640
aaaacagaaa agaaagaaga aaaaaaaaaa aaaagggggg gggggaaaaa aaaaaaccgg 2700
gggggggcca atgaaccctt tttttggaag aggggggccc tagaggcgga gtaaaaaaga 2760
aaggagagcg gggcctaaac agccccgtgt ccagcacacc cgcctccgtc ggacacctgt 2820
gagaggaccc cacctcggcc cggcacaatc cgacccccac agaaatttag gccggcgaaa 2880
aactggtatg gtggcacccg gctttcgtc gaattgttcg aatttagata acgcgccacg 2940
ccaatacaaa gcatgagaag aaccatcaca aagaatagag tgagatcaac attcacacc 3000
tacatacaac aaaactaaca nnnn 3024

```

<210> 786

<211> 1420

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1420)

<223> n = A,T,C or G

<400> 786

```

gcttggggct ggcccgacg ctgcctgac gtttcgccc gccgctccac ctccccggg 60
ggcccgaccc cagagacctc agcgaccccc atcgcttgc ttgccagggt ctccgaaagc 120
gctgtgggcc cctcttcgcg gccaccccg cggcctctt ccgccctctg aaccggcagt 180

```

```

tagctggacg ggcctcaagg gcccgcgcc cagggactca aaggaccctc ccgcgccccg 240
cgaggctccg gggctcgcgg cttccgcctt cttgctgccc tcgttcttgc cagggccgcg 300
gtagtccct gctggccacc ccactgcgac catgttcgtt ccctgcgggg agtcggcccc 360
cgaccttgcc ggcttcaccc tcctaagtc agcagtatct gttggaaatg ttggccagct 420
tgcaatggat ctgattatct ctacactgaa tatgtctaag attggttact tctataccga 480
ttgtcttggt ccaatgggtg gaaacaatcc atatgcgacc acagaaggaa attcaacaga 540
acttagcata aatgctgaag tgtattcatt gccttcaaga aagctggtgg ctctacagtt 600
aagatccatt tttattaagt ataaatcaaa gccattctgt gaaaaactgc tttcctgggt 660
gaaaagcagt ggctgtgcca gagtcttggt tctttcaagc agtcattcat atcagcgtaa 720
tgatctgcag cttcgtagta ctcccttcgc gtacctactt acaccttcca tgcaaaaaag 780
tgttcaaaat aaaataaaga gccttaactg ggaagaaatg gaaaaaagcc ggtgcattcc 840
tgaaatagat gattccgagt tttgtatccg cattccggga ggaggtatca caaaaacact 900
ctatgatgaa agctgttcta aagaaatcca aatggcagtt ctgctgaaat ttgtttcaga 960
aggggacaac atcccagatg cattaggtct tgttgagtat cttaatgagt ggcttcagat 1020
actcaaacca cttagcgatg accccacagt atctgcctca cgggtgaaaa taccaagttc 1080
ttggagatta ctcttggca gttggtcttc ccctgcactt tctgatcta atttctgttt 1140
tataccttat acccaaaaaa cttactacca acacagctgt taaacattct atacaaaaaa 1200
attgtatgat ctggtattag gaaattactt tcacagtaaa tatcaaagaa aaaagattaa 1260
gggtctcttt gccatgcttt tcatcatatg caccaaatgt aaattttgta caataaaatt 1320
ttatttcta agtaaaaaaa aaaaagaagg gctcgaggcg cgaaatattt taaaaaaaaa 1380
ccttccaaaa cttcccttg accctaaaaa aaaaaannnn 1420

```

<210> 787

<211> 3032

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(3032)

<223> n = A,T,C or G

<400> 787

```

naagagttag cagggcaaag gacgcaagag gacatcgggt gctctccatc accaggagga 60
gacaggtggt ccactgaagg gcagacaatg tggaaagtaa caagaaaaaa aggctagcac 120
tagattctga agcagcagtc tctgctgata aaccagactc agtactgact catcatgtcc 180
ccagtttctt gcagaagctg tgcaaaagaga gggcccagaa gttgtgcaga aatagcacca 240
gggtgcctgc acagtgcaca gtcccttccc atcctcagtc cactcctgta catagcccag 300
acagaatgct ggactcaccc aaaagaaaga gaccgaaatc ccttgcgcaa gtggaagagc 360
ctgcaattga aaatgttaag cctccaggtt cccctgtggc caaactggca aaatttactt 420
tcaagcagaa gtcaaaactg atccactcct ttgaagatca cagccatgtg tcacctgggtg 480
caactaaaat agcagttcat agtcctaaaa tttcccagcg tagaacaaga agagacgcag 540
ccttgccggt gaagcgtcca ggaaagttaa catctacccc aggaaaccag atctccagtc 600
agccacaggg tgagacaaaag gaggtgtcgc agcagccacc agagaaacac ggaccaagag 660
agaagtgat gtgtgccctt gagaagagga ttattcagcc tgaattagag cttgggaacg 720
agactgggtg tgetcatctt acttgtgagg gagacaaaaa ggaagagggt tcaggcagta 780
ataaaagcgg caaggttcat gcctgcacat tagccagatt ggcaaaactt tgctttactc 840
ccccatcgga atccaaatca aaatcccctc ctctgaaag gaagaaccga ggtgagagag 900
gcccaagctc ccctcctaca accacagctc caatgcgtgt cagtaaaagg aaatcttttc 960
agetccgtgg gtccaccgag aaactgattg tttccaaaga atccctcttc actttaccag 1020
aactaggtga tgaagcattt gattgtgact gggatgaaga gatgagaaaa aagtcatagt 1080
tgggaaaagc tttctggtca aatctcacct tcttcaactc cacagaggac cttcaggata 1140
tcaatatggt atttataaat gtatagaaca attggccata ttgaggatca ctctgaatac 1200
tggctcccc ttaaggcttt ctaatttcag gttaatcttc atgacttaaa aagttgtata 1260
atcagttgag gtcagtgtga taccagcagc tgagctgaat taattatgtt gtgcttaatt 1320
ttacaaatgg agtacttgta ttctgttcc tgaagctgtt tctgtttttt gttttgtttt 1380
gtttttaagg gggagagggt cttccctaga ttaatttctt ctttcattca ctcaggaaca 1440
aatgtcaaga aggtagcact cataaatcta acaaggcaga tgaactcttt tctacttttt 1500
ttttttttt tttgtatttt cacctggaat gggctaaagta cagtgaatat aatcacttgg 1560
atgatttgcc aaaatcagac tatttttcta gtattatttt tgtattgatt tgtgtggatc 1620
aggttaaatg tgactaatgc ttttctttct ttgagaggta tccttacaat tccatgatgt 1680

```

```

tcttagagat ctggccactg gtcaaacagt acctttctga agtactgacc ttctgagttg 1740
tcctttcttt cttgagccaa cattttgtac ttcagattct tttttctctt gggggcctac 1800
cttcaaccaa gtaaaatact gtgattagaa gaagagagag tatgagccag gcacagtgc 1860
tcaactcctgt agtcctagct actcggggag gctgaggcag gatgattgct taagcccagg 1920
agttcgggggt tacagtgcgc tgtggtcaca ccaactgtatt ccagcctggg tgacagagtg 1980
agatcctgtc tctaaaaata aaataaatga agaagagaga ctatgtggta gtctcaatca 2040
aacatcatgt ctcatctacc cagctgggta atatggaaat gtgattccta ctaagttgtg 2100
attcacttgt ctttaaaacc aaggaaatta tgtactgttt ttggtcagaa tagataacct 2160
caagctttgt ctttctatgt gcttttaaaa tcacttattc ctttggattc taataagggt 2220
tattaggatt cagtaattat ggactttctc ttctgaagtg tgaatttgta aactgattgt 2280
ttaattgtca gagggacttt tggacataga atactcaaaa ctatatgtat tttgtttaat 2340
tttcacttca ttcaattcac gcattgaaaa caaatctaga aaatccaatt tttcttaagc 2400
atttaaacgt tctaaaattc actaataaaa ttttctgaaa aaatttaaaa aaaaaaaaaa 2460
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaacaaaac aaaacaacac 2520
caaaaaaaaa acaaaaacaa acaacaaaac aagacaccaa cgagcggcgc gcctaaacac 2580
agaagccaca ccggcggcga caccacagcg ccgcccacc acctcaacc gagccagcca 2640
cccccatgc gcggaatc aacagcaaac aggcgcggc aaaaaccgcc gaggaacaa 2700
accagagcac aggcgcataa ggaacaccca acaccggctg gggagactga cgaggccgca 2760
cccgccacca cgagatcatg agcgcggagc agcaaaatca catacgagcg agctggaagg 2820
caaacacaac acgatagcgc tgggccgacg acctcgccac gagaagtcac acagaaaatc 2880
aacgggcagg aagacaaccc gaagccagcc ggccgcgcgc cagagcgacc ccggacgacg 2940
tcgcagcggc cctcgctcgt gcgaagacgg gacgcgcccc gagaggccag gcacccgcga 3000
gcgacccgcc agacaacgac ccgcacaacg an 3032

```

<210> 788
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(275)
<223> n = A,T,C or G

```

<400> 788
naactgcacc tccaccgcgg tggcggccga ggtggctgct cgggttagat cgtcaggtga 60
gggaggaagg gatagccagc gcgaaggaag tgcaggagtc gtgtgttttg gctgcgcgtg 120
atcctgcgtg ggtcgggagg tgtttctgtg aaaagcctaa agattagact gtaagaaaag 180
aaaatagaag ccatgtttcg aagacctgta ttacaggtag ttcgtcagtt ttaagacaa 240
tagtcccaaa caacttccca ttttggtcnn nnnnn 275

```

<210> 789
<211> 1303
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1303)
<223> n = A,T,C or G

```

<400> 789
ncaactgcacc tgtggggaaa ggcaggagaa gaaggagctg aggacttcac cccaccatct 60
gcagaatacc caacaggctg ttcagttctc agctaccaag ggggcaccct ttcctctccc 120
agttggtgat gatttggtta cgtattgtgg aagagccgcg gctggactca ggcactcctg 180
tcttaggata gctagcggcc agggagaaata cagtggaaaa tgcaaaacaa cgaaattata 240
aagcctgccca aatacttctc agaattggaa aagagcatcc tgctggcttt agtagaaaag 300
tataaatatg tgctggaatg taagaaaagt gatgcgcgaa ctattgccct taagcagcgt 360
acctggcagg cgctggccca cgaatacaac tctcagccca gcgtgtccct gcgggatttc 420
aaacagctga agaagtgcgt ggagaacatc aaggctcgga ccaaaaaaat tatggcccat 480
gaaaggagag agaaaagtga acggagcgct agccctctcc tgagtaccca cgtcctaggg 540

```

```

aaggagaaga tgcgcagcat gctgccggag cagctctact tctgcagag cccccggag 600
gaggagcccc aataccaccc cgacgcctca gccaagaat catttgctgt ttcaaataga 660
gaactgtgcg atgatgagaa agagttcata cattttccag tatgtgagg gacctctcaa 720
cctgaacctt cgtgttcagc tgtcagaata acagccaata aaaactacag gagcaaaacc 780
tctcaggaag gtgctttaa aaagatgcat gaggaagaac accatcaaca aatgtccatc 840
ttacaactgc aactgataca aatgaatgag gtgcatgtgg ccaaaatcca gcagatagag 900
cgagagtgtg agatggcaga ggaggaacac aggataaaaa tggagtttct caataaaaag 960
aagatgtatt gggaaagaaa actacaaact tttaccaagg aatggcctgt ttcctcaatt 1020
aaccggccct tccaaattgc ccagaaaaat ggaggggggg gccccgggta aaaaactggg 1080
ttcggcacia aatctgtgtc aggtacatgt gggcaaaaca agtgacaacg caccatgcaa 1140
cgtaggggcc accacactat agtgaaaacc agaaaaatga ccagccaact gagaaaacat 1200
gtacaaacia aatacactaa taagagtaaa acacaacaac agacgataag acgaccagac 1260
gtgatatgct cgggatgcgc atattattct acaactacga nnn . 1303

```

<210> 790

<211> 272

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(272)

<223> n = A,T,C or G

<400> 790

```

nnnnnnnact cacactccta caccatgagt cactacggca gctactacgg aggcctgggc 60
tacagctgtg gaggtctcgg tggcctgggc tatggctatg gctgtggatg tggcagcttc 120
tgcagacggg gttctggctg tggctatgga ggctacggat atggctctgg ctttgaagc 180
tacggatatg gctctggctt tggaggttac ggatatggct ctggctttgg aggtatgga 240
tatggctgct gccgcccatc gtacctgccc gg 272

```

<210> 791

<211> 531

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(531)

<223> n = A,T,C or G

<400> 791

```

tgcctgaaca acaaaccaac tcaccactcc tgacaccatg agtcactacg gcagctacta 60
tggaggcctg ggctatggct gtggaggctt cggtggcctg ggctatggct atggctgtgg 120
atgtggcagc ttccgcagac tgggttctgg ctgtggctat ggaggctacg gatatggctc 180
tggctttgga ggctatggat atggctctgg cttcggaggc tacggatatg gctgctaccg 240
cccatcatac tatggaggat atggattctc tggattctat taaactactg cccagcaac 300
acaatgtgtg aaattataag aggactttcc cagagctgac ttcaatcatt ggacaacaaa 360
gatcatgctg gagctatttg cacaaaagaa tttaacatct cagaatttca ggcaattttt 420
tttctctgta taccacatc tctataataa tcctagtatt ctctagtttt gcttttaaag 480
ctgattgaat tatctgttta tcttccaata aaacattcta ttttcaaaca n 531

```

<210> 792

<211> 1583

<212> DNA

<213> Homo sapiens

<400> 792

```

acctaccctg gagtgcagta gcacaatcct aatgaactgc agccttaaac tctgagttg 60
gagatcctcc cactcagcc ttctgggtgc caagactaca ggacatcac cagcctggc 120
tcatttgaga aatatttttc tgtagacgtg gggctctcact ttattgcccc ggctggctc 180

```

```

tggctctcatg  tgatccttct  gcctggactg  ggattacagg  tgtgatcacc  atgcctggcc  240
tagaattttaa  taaaaattct  gagatttcct  ttgtgtagca  gatgttgaat  gttactgtta  300
ttggctgtca   ctgtatttga  aggatttgta  tgtgtaccct  ctgttgagtt  ttggggacat  360
agcagtgatc   cagatgactt  aaggctctgc  cttcatggac  ctgccagcct  agttggggag  420
aaggactggg   cccaatacca  gaagctgatc  caaagtggtc  agaactgggg  aaggagacct  480
gtgagctgaa   agcaggtaaa  ggaagtatcc  agacagaggc  actggtaaaa  gacctggagc  540
tgggaagggg   ctagggacca  gggacagggt  gtactgtaat  tctggaaacc  tgtgaggctc  600
aaagaaaggg   cagagagctc  aggtgggaaa  tagaaaaggc  acctgaacag  tccagggatg  660
gctttcgact   acttgaaaca  gccttgggag  tttcagaagc  tattggaatg  ctccctactg  720
ttcagccttc   taagaaccag  tcttagaggt  aggggtgtctg  aggtccagtg  agggacacaa  780
gtaggaggga   gccagatct  tgttcccttt  accttgcta  tatttcttaa  caccacttca  840
gcagtctcat   atctggcttt  tttgactttc  ctcttctctg  ggtctgtaga  gggccttgga  900
gtgacaccct   gacccccatc  cactagtact  tgaaggccag  tgggtggcaga  agccacagaa  960
acaagaagcc   cagtgaatg  gctaagctgc  ccagcatgta  acttaaattc  ctgttcattc  1020
cccattcctt   tagctgctgg  agccagttct  gcttctcggc  aaggagcgat  ttgctgggtg  1080
agacatccgt   gtccgtgtaa  aggggtgggtg  tcacgtggcc  cagatttatg  gtgagtccca  1140
ggaactgggc   gcatggagga  ggtggctctg  ggaggaggc  cttcacagcg  ctccgtgacc  1200
ctttaattgt   gtgtctttct  cacagctatc  cgtcagcca  tctccaaagc  cctgggtggc  1260
tattaccaga   aatgtgagtg  agcatgggtc  cttcccatga  ggtagatggg  tgtgtgggga  1320
tcaagtcaag   gactctgtgt  gattatctaa  atcctcgtcc  ctgctcttct  tgccagatgt  1380
ggatgaggct   tccaagaagg  agatcaaaga  catcctcatc  cagtatgacc  ggacctgtct  1440
ggtagctgac   cctcgtcgct  gcgagtccaa  aaagtttggg  ggccctgggtg  cccgcgctcg  1500
ctaccagaaa   tcctaccgat  aagcccatcg  tgactcaaaa  ctcacttgta  taataaacag  1560
tttttgaggg   attttaaggt  ttc                                     1583

```

<210> 793

<211> 868

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(868)

<223> n = A,T,C or G

<400> 793

```

ncgtggcggc  cgcccgggca  ggtacgagtg  gaggacaggg  acagagccct  ctgtgggtgga  60
acgacccac  ctcgaggagc  ttctgagca  ggtggcagaa  gatgcggtaa  gatgggcctt  120
gtgatgagct  gtaggagtg  agtgggagct  gcttgtcccc  tccccacccc  caacagccca  180
acccaagacc  cagagagaag  aaggaggat  ttctgtgaga  gtgactgtag  gtagaagggc  240
ccaggaggcc  ctactccttt  atttttctga  gtataggtga  gtgagtcca  cagaggcttt  300
gcaagtggt  tcgctttgaa  ctoggaacct  ccatcatgtg  agctctctga  agatgggctt  360
tctttgggg  agcttagagg  cactgcatt  tgaacagtg  gctctctaca  gaagcagctg  420
aggcctgtg  gaaggcagcc  ccacctcct  ttttaaatta  atttatttt  gagactgggc  480
cttgctctgt  tgcgaggct  ggagtgcagt  ggcatgatcc  ttgctgactg  caacctctgc  540
ctttcagcct  caagcgatcc  tcccaagtca  gcctccaaga  tagctgggat  tacaggtttg  600
caccaccact  cctagctaat  tttttattaa  catctttgta  gggacaggat  tttgccatat  660
tgcccaggct  ggtctcaaac  tcctgggctc  aagcaatcca  ctatcctcgg  cctcccaaag  720
tgctgggact  aaaggcgtga  gcccttgggc  tagcagtaat  tatttaaacg  aattatttag  780
gagctccaga  tggaagggcc  cggtttgcca  cccggcaagg  acagaagctg  aatctacctc  840
cggatttccc  tccagagccc  agctgggt                                     868

```

<210> 794

<211> 531

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(531)

<223> n = A,T,C or G

<400> 794

```

tgcctgaaca acaaaccaac tcaccactcc tgacaccatg agtcactacg gcagctacta 60
tggaggcctg ggctatggct gtggaggctt cgggtggcctg ggctatggct atggctgtgg 120
atgtggcagc ttccgcagac tgggttcttg ctgtggctat ggaggctacg gatatggctc 180
tggctttgga ggctatggat atggctcttg ctctggaggc tacggatatg gctgctaccg 240
cccatcatat tatggaggat atggattctc tggattctat taaactactg cccagcaaac 300
acaatgtgtg aaattataag aggactttcc cagagctgac ttcaatcatt ggacaacaaa 360
gatcatgctg gagctatttg cacaaaagaa tttaacatct cagaatttca ggcaattttt 420
tttctctgta taccacatc tctataataa tcctagtatt ctctagtttt gcttttaaaag 480
ctgattgaat tatctgttta tcttccaata aaacattcta ttttcaaaca n 531

```

<210> 795

<211> 2175

<212> DNA

<213> Homo sapiens

<400> 795

```

gaccacgcg tccgctggtg tttggcgctg ggtgagtcgc gctcgactct gctcgcgatg 60
acccctcggg cgtcgtctc cgtacccccg cgtccccctc cgtcgcgcg cctgcggacg 120
gaccgcgcc caggcggtc aggcggcggc aggcctgtc agactggctg agaaggaggc 180
gcgggggccg aggtggaggg agggagggtt ctggcgaggc cctggcccg acgtccaggg 240
gccgggaggc tccaggcgat ggagccggtc tggggagacg ccctgctgga gaagtggccg 300
ggtcccgccc gtgctggtg cggccctgcg ccactgggt gacctcagac acctgggcct 360
tggacggccc ggctgcccag cggccaacgc ctgcccctcc ggccgcgcg cgggtcctgg 420
cgggtgattg gggccgaccc gggcgtgttc gtgtggagca cctgcccgt gcccacact 480
atcctagatg ctttgagggg tggaggagcc tcctgttgca cggctctgcc taagaattaa 540
acaaccacca tgtcgcagaa aaaggcaaa accaagacca ccaagaagcg ccctcagcgt 600
gcaacatcca atgtgtttgc catgtttgac cagtcacaga ttcaggagtt caaaggaggc 660
ttcaacatga ttgatcagaa cagagatggc ttcacgcaga aggaagattt gcatgatatg 720
cttgcttctc tagggaagaa tccactgat gcatacctg atgccatgat gaatgggccc 780
ccagggccca gcaatttcac catgttcctg accatgtttg gtgagaagtt aaatggcaca 840
gatcctgaag atgtcatcag aaacgccttt gcttgctttg atgaagaagc aacaggcacc 900
attcagggaag attacctaag agagctgctg acaaccatgg gggatcgggt tacagatgag 960
gaagtggatg agctgtacag agaagcacct attgacaaaa aggggaattt caattacatc 1020
gagttcacac gcatcctgaa acatggagcc aaagacaaag atgactgaaa gaacttttagc 1080
taaaatcttc cagttacatt gtcttactct cttttacttc tcagacactt cccccaccct 1140
catccccatt tccagctga ttatacaagt gctaagtggc agaaaggctt ggaataaata 1200
catcaaaaag aaggagcaaa gctgtgaaac taagttgcat gcaacagggt ctatgagggt 1260
gggggaagtg totgagaagt aaaagagagt aagacaatgt aactggaaga ttttagctaa 1320
agttctttca gtcactttt tctttggctc catgtttcag gatgcgtgtg aactcgatgt 1380
aattgaaatt cccctttttg tcaatagggt cttctctgta cagctcatcc acttctcat 1440
ctgtaaaccg atcccccatg gttgtcagca gctctcttag gtaatcttcc tgaatgggtg 1500
ctgttgcttc ttcacaaaag caagcaaagg cgtttctgat gacatcttca ggatctgtgc 1560
catttaactt ctcaccaaag atggtcagga acatggtgaa attgatgggc cctggggcct 1620
cattcatcat ggcacaaag tatgcatcag tgggattctt ccctagagaa gcaagcatat 1680
catgcaaatc ttccttgctg atgaagccat ctctgttctg atcaatcatg ttgaaggcct 1740
ctttgaactc ctgaatctgt gactggtcaa acatggcaaa cacattggat gttgcacgct 1800
gagggcattt cttgggtgtc ttggtctttg cttttttgct cgacatgggtg gttgtttaat 1860
ttctggccaa gcaactgttat gaaggcatag ggcttcctca aagagaaagt ctccaaagt 1920
gatttcttac totgacaaag actgtcccca tttaatcttc acaacagttg cctatggtag 1980
gtactcttat tcccatttta ctaccagtat aacataacct ctctgagcct caatcctctt 2040
attccattt tactaccagt ataacataac ctctctgagc ctcaattttt catcagtaaa 2100
acatgatatc tacttcaatg caaagaacta attgagataa catatgtaaa aagactagtc 2160
agttcaaaaa agcgg 2175

```

<210> 796

<211> 1994

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1994)
 <223> n = A,T,C or G

<400> 796
 tttttttttt tttttttcct aaaaatgttt tattttaaca aaatgctcaa atatctgaaa 60
 ttgggcaaag gtggagggtg ggcaagctgg ctgaggtgtc ccaggtctgt ggctgcctag 120
 ctgggtgagg ggctggtgag cagctgctcc agacaccact ggacttcctc caggccccgg 180
 tagggccgct tcagaccccg gggaaggcag cggcaggact ccaggttgag gtagagcagg 240
 cccgggcagc tgcctgatcac agagctgaca gtgcttggtg tgaccgggt gccctgagg 300
 ttaagagagc acagggtgg gtgtgagccc ccagggtgtc ttaagaaggc cgacatggca 360
 gatcctgaag gccagccggc gtgatgcgcg cacagccacg aagatccagt aagcgcagg 420
 tgggagagcc gtggagtagg cggcccagga cctcgttgct cacaaggtg cagggttgagc 480
 tcgccaggca gagctcctct aggttaggga agcctggtcc gggagccacc cctcgtcccg 540
 gaggcttggg cagccacatc aggttcaaca gccgcagcac ctggagctga gggcagcctt 600
 tctgcagagc ctgcacaggc agctgaaggg gaatgctatt acggttgatg ccggtgctca 660
 cctccaggac ctggagctgg gggcagcagc tgcccagcag tgcgccagg atggctgtcg 720
 tctgggagct gtaggtcagc cacaacttgc gcattcggga ccctgcctcc tccaagaagc 780
 tcaccacagc tgtggactcc accatggagt gctgtaggtc caggctatgg agctggcagc 840
 aggtcttggc tagcatgacc agagcgtcag cagtcacacc gtggcagccg gagagcttga 900
 ggaaagttag ccgaggacag cactcaccta ccagctgcgg ggagacagag gggcagctgg 960
 ggttgggaga cgacaggcta agatccacaa gggaaacaga caagtggctg gtgccaaccc 1020
 cactctaccg ccttagctgt gacctccttt ctgccatgc caggcctact tgggtgtccc 1080
 cgctctgat acctccctgc tggaggaaac agcaggaaaa gagaaccagg caggcaagca 1140
 gacatcccca cggagcagcg ttgggcccc aagggtgcctg acccacttcc tagagtactg 1200
 aacagtccca gagtgtcaca gctgatgtgc aggacagcct ggagctctca ccttcaacac 1260
 ggggtgtacc tgagacttcc agtggtatgag ggtcagcctc tggagctgtg aaaacctggg 1320
 ccgacagcgg aggcagagct gactaatgt tcccacacga gtccttccca cccaacacct 1380
 tgggtgaggg agacggaagg agcctggagc caggggtaag gaagagaggg aacctctcac 1440
 cgattgggca taagccactc cagggaagca aggagcttct tctccgcctt gaccccgccc 1500
 ttggcaggcc ggcgcagcag cggggacgac agggtcacgg tgtgccagag cgcgggttg 1560
 gaagcggcct cctgccagcg ggcgcacacg cgcgcagccc tgggaggaca gcgtgctgag 1620
 ggtgccggcc cctccgtagg cgatgcccc ctctgcagc gcagtagaca ccccggtca 1680
 aagccgggct cctgggactc caactgggcg cctaaggggc tgcgctctcg gactgagcgg 1740
 tgcgcgtcc gatgtttcg cctccgccc ccgcccgggc caccgctcgg accacgtctg 1800
 gcccaagccg ctacgctcgg cggcgggccc ggcaccagcg ttacctgcc aggaagggca 1860
 tggggcgctc cgccgccacc aacaaccga aaatctgcac caggatttcc aagggaatgc 1920
 ggtctcccca gccgcgtcgg ggccttctct cgggcgtggg cgtgggtgcc ggtgcgggtg 1980
 cgggcgcggc cgcn 1994

<210> 797
 <211> 1139
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1139)
 <223> n = A,T,C or G

<400> 797
 nnnatctgta aagagtacaa tgcgtgtggg ccaccgggtc ccaacatttt ctgtgtaccc 60
 ccgtttttcc tccatagcct tccaggtgcc agcgccccgg gtttcgcccc ctctgtttg 120
 ttcttttttt ggagttcgcc taccttatca gggatgaaaa acagttgaaa catactgccg 180
 cagatttcac tgtgccggcc tataaaggaa acaaccctgt tgaagctgtg gattttttta 240
 cgaagacccc ttactataat tggctactac ctccgtatca gtcacgataa cagcagtaga 300
 tatccccggg ttagcatcca gagctgagtg ccccaaggaa gacagaggca atggcagaat 360
 aatatgtga gaaaggactc ttaagagcaa tacaaagaga acagacaaaa atctcaccac 420
 aaaattgtac ctgagtgaca gattggtaaa gtgttttact tttttttttt cttttcgctc 480
 tttggtctga caagaaaaga gtttttaggtg tgtgaagtag ggtgggaaaa aaggtcagtt 540

```

tcaaattcag taacatatgg taacactaag ttaggctgct gcattctttt ctttgggtac 600
ttaagccagc tggcacttcc actttgtaac caattatatt atgatcaaca actaatcagt 660
tagttcctca gcttcaactg aagagttcct gattacctga tgaaggacat acttgctctg 720
gcttcaatta gcatgctgtc aagcatccct ctccatgctt aacatggcaa cacaaaaccc 780
aagagtcctt ctcttttttt cattagccat gaataaacac tcacaaaggg gaagagtaga 840
cactgctttt agtaaacgtc ctttttcttt acctcccttt tccaatgcca agttcatatg 900
aaaaacttta gaaacattaa aatggagaac tctctcacc ccc aaaaagtaat tctcattcca 960
gactactcta tcaggcagga ttactgtacc gtgcttgttt caaactcaca tccacggagg 1020
gataaaaaga caaaataaaa cttgacagtg tgatacaaca tgaaaatctc ctaaacctac 1080
aggagcaaac actcagttaa aagctgggtg ttaacaagcg gacgcgtggg cggacgcgn 1139

```

```

<210> 798
<211> 1869
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(1869)
<223> n = A,T,C or G

```

```

<400> 798
ngtgggcctg tgcagttgt ttggctgctt gcggtatgcc ccgtgaggcc tggatgttgc 60
gtcagatgtgc cgcgggagcg gaccatgaat aaccctata ggtaactccc ccataccaca 120
cagaacagtt tgtccagagt caggatctag cctcactttc aaactgggat cttcacgctg 180
aagacatttc aacgcatggt ccaaactctg ctgcttagac agtgatgggg gttctatggt 240
acagaagaaa acaggttctg gaatctccac tccagccaat aaaagtctct ctgcttcatt 300
gttttgtctg tgcttctttt ctccctcccg ttcggctcta cgagctgcag ctaatgcaact 360
ggacttggat gagacaatgg tgtctccagt ggcagtatgt ttaagcccaa cagtcaaagc 420
aatgttacca gcagtcfaat aagggttttc tacatgttgg tcagcaaacg gcaaaagcag 480
acgacttatt ctctccgtgc agtttccatt aatattatga atggccaact ggggttttat 540
agtgcctgag taaatgcgca taaaaaccag tggctcctgc tgcttgtcat ggagaacttt 600
aaatgccaat gcacataagt catccttata ccactgcaga aattcatagt tacgctcttc 660
aggtgaaggt aagtacatag taacagcatc taacaagggc tgtatccctt tgtttttcag 720
ggcacttcca caaagcacag gcactgctgt ctgagctagt gtcactctat gtattgcagt 780
ctgtagcttt tcagctggta acaaatcaaa attctcacta aattcttcta aaaccaagtc 840
agcaaattca tcatccaaat ctgcaacttg ttcaattaag gcattccttg cttcagttgt 900
ttccttcagc aattcaggat caticatttc caagaggggc tttctctcaa agtcttttcc 960
atcatttgaa ttgcaattcc aaagaagttt ttctttcatt actacatcca ccaactccgtc 1020
aatgtggctc ccctggtata cgtaaccaac gtttgcctta ctctctcaag ctttcagcgc 1080
aatactaaac ctgccccaaag tttgccatct gtttaaaacc aattcagagt aattgtgttt 1140
accacttgcc ccatacgtt gagatgtctg gccctctaca ccacagagca tcaatccacc 1200
actgccccat ccacactctt aggcccgctc aaccttccaa ggtaaagtcc acatgacctg 1260
ctgtatccat ttagattgac tctataaccg ttccaatcaa atgtaacagc agctgattga 1320
atagtaatgc ctctttctcg ctcttgggcc atgaaatctg tctgtgtct ccatcatcaa 1380
catctcccag tgatcttgta tatccggaat agtacatatt ctttctgtgg tggtagtttt 1440
gcctgcatca atatgagcca taattccata ttacggattt tagctatggg aggattgatg 1500
atggaatgaa gggatttgat atcatttcct attaacgctg gtagagaact gcatttcttc 1560
cagcggcaca tgtggcttta atctttttaa acttgctctt attttatagc agcatatatt 1620
attaatatac acctgggtat tgtctgatga ctcttgcaat atcctcaagt tggtcacatc 1680
ttgatcctcc aactgttact gtctggcatt agccgcgtgc cgcaggccag ctctcaccgc 1740
tgggctcttg aagcaggagg cgcgagccgc gccaaagtctg cagggcctca agtctcgacg 1800
ccagcctagg caaaggcatg tatctaaacg caaagaaaat aggtcttctc cgctctaccg 1860
cctcnnnnn
1869

```

```

<210> 799
<211> 1113
<212> DNA
<213> Homo sapiens

```

```

<400> 799

```



```

aaattgggggt ccccccggg tgcgggcggc tttttttttt ttttcccttt tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttttt tttgaaaaga tgtttgatgt ttatttccac cttgcactca ggtctgagcc 180
acaagtacat taagacattg aatggtatca ccaggggaat acgtaaccag acaacacaca 240
agactgagat gcacaagtgg tgggtggtgg aattcacgca gaaggaacc'a gacagtaaaa 300
caaaaattgc ccaacacacc aaatgatcaa atccgccacc tctaggatag gcaaacttga 360
ttgctggggt aagaacccta gaggtctgtt aagggtgggca gagaaggggt tttctcagct 420
tagactgtcc tgacatctaa ctgccagcaa gcactgtaca tataatttcc tgagaaacca 480
agtcccttagt gggaagggtta tccctttgac cagatcttat ggcttaaatt ggtcagggtt 540
gcaaaacctc aaagcctcca taaccaaagc tagggagagg ctctatatgc tacaagcagt 600
acctcctcac tgcaggtagt ctgcgcctta accctctgca gggagactga ctgtagcacc 660
aagtacctgg ctttttagac tctacatagg aattccacca taattaagat gtataaactt 720
gacctacagc ctaaagccca atatgcttcc ctcaagaaca tcaacagtgt tcaagcttag 780
ctttgttaca gaaaatgagg tagggtgagg tggctcacat ctgtaatctc agcagtttgg 840
gaggccaagg caggcgcatc agctgagggtc aagagtttga gaccagcctg gtcaaaatga 900
tgaaacccca tctatactaa aaatacaaaa attagctggg catggtggca acacgcccgt 960
tatccagct actcaggagg ctgaggcact agaatacatt gaaccagga ggcgaggct 1020
gcagtgagct gagatcacgc cactgcattc caggggaaaa aaaaaaaaaa aaaagaaccg 1080
caacagatgt ctcaattttt gacattgggtc atc 1113

```

<210> 800

<211> 306

<212> DNA

<213> Homo sapiens

<400> 800

```

tgaatacttt taccaaatat atatctccag atgctgctaa accaatacca attacagaag 60
caatgagaaa atgacatcat agcaaggatt tgtggagaag atggacaggt ggatcccaac 120
tgtttcgttt tggcacagtc catagtcttt agtgcaatgg agcaagatac atggaaaaag 180
aggatgcagt gaatatctta caattctggt tggcagcaga taacttccag tctcagcttg 240
ctgccaaaaa gggccaatat gatggacagg aggcacagaa tgatgccatg attttatatg 300
acaagt 306

```

<210> 801

<211> 1300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1300)

<223> n = A,T,C or G

<400> 801

```

cccaagcaag ggtacaagg tgcgggaaaag gcacctgggtc ccactccttc cgatccgctt 60
cttaaaggag aggacgaaga agtgacataa tatattctat ttttatactc ttcctatttt 120
tgtagtgacc tgtttatgag atgctggttt tctacccaac ggccctgcag ccagctcacg 180
tocaggttca acccacagct acttggtttg tgttcttctt catattctaa aaccattcca 240
tttccaagca ctttcagttc aatagggtgta ggaaatagcg ctgtttttgt tgtgtgtgca 300
gggagggcag ttttctaattg gaatgggtttg ggaatatcca tgtacttgtt tgcaagcagg 360
actttgaggc aagtgtgggc cactgtgggtg gcagtggagg tggggtgttt gggaggctgc 420
gtgccagtca agaagaaaaa ggtttgcatc ctcacattgc caggatgata agttcctttc 480
cttttcttta aagaagttga agtttaggaa tcctttgggtg ccaactgggtg tttgaaagta 540
gggacctcag aggtttacct agagaacagg tggtttttaa gggttatctt agatgtttca 600
caccggaagg tttttaaaca ctaaaatata taatttatag ttaaggctaa aaagtatatt 660
tattgcagag gatgttcata aggccagtat gatttataaa tgcaatctoc ccttgattta 720
aacacacaga tacacacaca cacacacaca cacacacaaa ccttctgcct ttgatgttac 780
agatttaata cagtttattt ttaaagatag atccttttat aggtgagaaa aaaaacaatc 840
tggaagaaaa aaacacacaa aagacattga ttcagcctgt ttggcgtttc ccagagtcac 900
ctgattggac aggcattgggt gcaaggaaaa ttaggggtact caacctaaag tcggttccga 960
tgaattctta tccctgccc cttcctttta aaaacttagt gacaaaatag acaatttgca 1020

```

```

catcttggt atgtaattct tgtaattttt atttaggaag tgttgaagg aggtggcaag 1080
agtgtggagg ctgacgtgtg agggaggaca ggcgggagga ggtgtgagga ggaggggaaa 1140
aaagcancaa tactgtgttt ggaaattata ctctgtatct ggttttcctg tgtatgttaa 1200
ccacttaaat gttattatcc tgctttggtt ttagagtgat tgtgaggcat tcaatgcaag 1260
tatacagtta ttttctcatt aaaatccaat gtgtgttgag 1300

```

```

<210> 802
<211> 1079
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(1079)
<223> n = A,T,C or G

```

```

<400> 802
naccacgcg tccgcggacg cgtgggtcga cccacgcgtc cgattatatt cagtagcagc 60
cttagaagag tgggtctaaga cttgaacctg gagcaatttt atagcacaga atcctacgaa 120
gataggactg tgaacatttg ttttcttttt catgtgtgtc aaactaactg gtttttgctt 180
taccaataaa atgtcctcgg cagagtaaat tttaaacgtg aaaattatag atcttgatat 240
tgaatccatc agtgattcaa gagatacacc tatttgccta aaacaacctg agatgtattg 300
gttatggaaat catgtgttg ataggttctt aagacctgtt tcctcaaatac ttgacacagt 360
tttcaagggt ggcttattga cttgcacggg tgggcagata atccagattt acctaagatt 420
gggtaaaaaa gtcactctgt actttgctgg cagggcattt gctaagtggg gtacaggatc 480
taaaagggtt ttcttagaaa gggcaatatt gtccaatgaa gtaagcagaa ggactctggg 540
ttagaagcat ctgcacaaaa actggtgaga cctactctcc actgctctgc agctggatgg 600
ctgatggcag gctgagcagt ggggaagcag gttttaacaa caggaggtcc ttccagggtc 660
ctgtatatgg agaagaaaca taaaactatt gctgtttaca ttccgaggtc agccttcttc 720
ttaacgtttt ataatatgca aatgccagct tctggaaagc aagtatcatc atgtacaaaa 780
tgctttatac accatcacat tcatgaattt ttttagcatg tcagaacttg tgtaaatatg 840
tctcttagat gattttgggg agatgtgatt tatttttcat attttcaaaa tgcatttcat 900
ttcaataaaa gttatctatt gagacaaccc aaaaaaaaaa gggggcgcaa atttcccgag 960
ggccaattac gtcccttttc ttaaagggtc atggagttaa aagcgggcgc ttaagtccgt 1020
ggaggttggt tggagcctct gggatatgacc tatgcaaaaa tgtatgannn nnnnnnnnn 1079

```

```

<210> 803
<211> 1570
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(1570)
<223> n = A,T,C or G

```

```

<400> 803
naacatggcg gccgcggtgg cggcggcacc tggggccttg ggatccctgc atgctggcgg 60
cgcccgctg gtggcgctt gcagtgcgtg gctctgcccg gggttgaggc tgcccggtc 120
gttggcaggc cggcgagcgg gcccggcgat ctgggcccag ggctgggtac ctgcggccgg 180
gggtcccggc ccgaaaagg gctacagctc tgagatgaag acggaggacg agctgcgggt 240
gcggcacctg gaggaggaga accgaggaat tgtggtgctt ggaataaaca gagcttatgg 300
caaaaattca ctcagtaaaa atcttataaa aatgctatca aaagctgttg atgctttgaa 360
atctgataag aaagtacgga ccataataat caggagttaa gtcccaggga tattctgtgc 420
tggtgctgac ctttaaggaaa gagccaaaat gagttccagt gaagttgggt cttttgtctc 480
caaaaataaga gcagtgatta acgatattgc taatcttcca gtaccaacaa ttgcagcaat 540
agatggactc gcttttaggtg gtggtcttga actggcttta gcctgtgata tacgagtagc 600
agcttctctc gcataaatgg gctgggttga aacaaaattg gcgattatc ctgggtggag 660
ggggacacag cgattgccac gcgccattgg aatgtccctg gccaaaggag tcatattctc 720
tgcgcgagtc ctcgatggca aagaagccaa agcagtgggc ttaatcagcc acgttctgga 780
acagaaccag gagggagacg cggcctacag gaaggccttg gacctggcga gagagttttt 840

```

```

acctcagggga cctgttgcaa tgagagtggc aaaattagca attaatacaag ggatggaggt 900
cgatttagta acaggggttag ccatagaaga agcttggtat gctcagacca ttccaacaaa 960
agacagactt gaaggtcttc ttgcttttaa agagaaaagg cccctcgct ataaaggaga 1020
ataaaaggaa cagaaattct taagatgcca atgtaataaa tgtacttcct ggaagtgtct 1080
ttcggatcca ctatatgcct cagcacatgg aaccttaatg accaaagtga agagcagatt 1140
attcatacgg tgtaataagc atctggaatg gacccatccg tgtacttcat tcaaagtgtg 1200
aaatgtcata ttcatcaga tttataaagc tagtagtgta tagtcagaaa cagaatcaaa 1260
gttagatata catttttaa ttttactgc atatgaggct ttctgttaat tttttaatgt 1320
gaataattta tatattgcac attctaggga ataataattga ttgtatgtct actgtgctgc 1380
attaagaaaa taaaatttct atataccaaa aatgtgaagt tataccaaat aaagtttcta 1440
agtgattaat gcatacgaac agctacatat acatatactt aaacctgaaa aatgaattga 1500
tattctgagt gaaaactacc taatataaat aaaattagtg aaaagaaaac annnnnnnnn 1560
nnnnnnnnnn 1570

```

<210> 804

<211> 712

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(712)

<223> n = A,T,C or G

<400> 804

```

nnnatacttt gcacacgtca aggtcactgt ggtttgtgtg tttctctgcc tcctccctgg 60
gttttctgt agatggagtc ctccaggggcc ctttacctga tggaggggaa atacttcact 120
tggtggagag aggtccagc ttcccccttg tgatggggag agtggatgct gacaatcagt 180
tcccaaagg gagcccagg ggagcactgc ttgaggaagg cctgagtctg ttttttggg 240
acatccatcg gcctgtaagg gtctgtatta tggctgtgaa tatatgtttt caggacagcc 300
ccctggatga gagataagg agttcctggc tcaaaaaagg acaagattct ttactgagat 360
tgggaagtat gggctactta gaaacgttgg agcagccacc cctggcattc cacatgttca 420
ccatttctta ggatcttggg cctctctgtg cagggtttttg caccaatgct gggcagcccg 480
gggcaggggc ctccggcctcc tttttgtttt ccacttcaga caggtagctg cccgggcggc 540
cgcccgggca gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn agagtctgat cttatttatt tgttactcaa aaaatcttat 660
ttttgactgg attcaaactt aaaagtaaaa cctcgcaaag gggaaagttt gn 712

```

<210> 805

<211> 7864

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(7864)

<223> n = A,T,C or G

<400> 805

```

nncaggctag tagaggctgg tgtaaatcgg acgaggcgag cggggctggt gcagcctccg 60
cggcgctgtc agggaagcgc aggcggccaa tggaaaccgg gagcggtcgc tgctgtgag 120
gcggcagtg cggcagtcga accgcagctg ccgcacccc ctccgcgggg gtccccaga 180
ggatcaacta aaccttgaac taagaagaaa aatgtgttgt gagcaggggg agcctcagct 240
gcctcaggcc gttcaggaca gaagggtgtt tctgaaggcc ggagcaagtt ttgaagaagt 300
ccctatcaga ttacacttgg ttgactactc cggagcagcc actaagaggg atgaacaggc 360
ctgcgtggaa attgaatgag attcttgga gctcgaagtc tggctgtggc catgggagat 420
acagtagtgg agcctgcccc cttgaagcca acttctgagc ccacttctgg cccaccaggg 480
aataatgggg ggtccctgct aagtgtcatc acggaggggg tcggggaact atcagtgatt 540
gaccctgagg tggcccagaa ggctgcccag gaggtgttgg agaaagtcaa gcttttgcatt 600
ggaggcgtgg cagtctctag cagaggcacc ccactggagt tggatcaatgg ggatggtgtg 660
gacagtgaga tccgttgcct agatgatcca cctgccaga tcaggaggga ggaagatgag 720

```

atgggggccc	ctgtggcctc	aggcacagcc	aaaggagcaa	gaagacggcg	gcagaacaac	780
tcagctaaac	agtcttggt	gctgaggctg	tttgagtcaa	aactgtttga	catctccatg	840
gccatttcat	acctgtataa	ctccaaggag	cctggagtac	aagcctacat	tggcaaccgg	900
ctcttctgct	ttcgcaacga	ggacgtggac	ttctatctgc	cccagttgct	taacatgtac	960
atccacatgg	atgaggacgt	gggtgatgcc	attaagccct	acatagtcca	ccgttgccgc	1020
cagagcatta	acttttccct	ccagtgtgcc	ctgttgcttg	gggcctattc	ttcagacatg	1080
cacatttcca	ctcaacgaca	ctcccgtggg	accaagctac	ggaagctgat	cctctcagat	1140
gagctaaagc	cagctcacag	gaagaggag	atggcctcct	tgagcccggc	ccctgcacaca	1200
gggtgtctc	cctccaaaag	gactcaccag	cgctctaagt	cagatgccac	tgccagcata	1260
agtctcagca	gcaacctgaa	acgaacagcc	agcaacccta	aagtggagaa	tgaggatgag	1320
gagctctcct	ccagcacoga	gagtattgat	aattcattca	gttcccctgt	tcgactggct	1380
cctgagagag	aattcatcaa	gtcccctgat	gcgatcggca	agcggctggc	cacgctcccc	1440
accaaagagc	agaaaacaca	gaggctgata	tcagagctct	ccctgctcaa	ccataagctc	1500
cctgcccagc	tctggctgcc	cactgctggc	tttgaccacc	acgtggctcg	tgtaccccac	1560
acacaggctg	tgtctctcaa	ctccaaggac	aaggctccct	acctgattta	tgtggaagtc	1620
cttgaatgtg	aaaactttga	caccaccagt	gtcccctgcc	ggatccccga	gaaccgaatt	1680
cggagtaaga	ggtccgtaga	aaacttgccc	gaatgtggta	ttacccatga	gcagcgagct	1740
ggcagcttca	gcaactgtgc	caactatgac	aacgatgatg	aggcctggtc	ggtggatgac	1800
ataggcgagc	tgcaagtggg	gctccccgaa	gtgcatacca	acagctgtga	caacatctcc	1860
cagttctctg	tggacagcat	caccagccag	gagagcaagg	agcctgtgtt	cattgcagca	1920
ggggacatcc	gccggcgccct	ttcggaacag	ctggctcata	ccccgacagc	cttcaaacga	1980
gaccagaagg	atccttctgc	agttgctctc	aaagagccct	ggcaggagaa	agtacggcgg	2040
atcagagagg	gtctccccta	cggccatctc	cccaattggc	ggctcctgtc	agtcattgtc	2100
aagtgtgggg	atgaccttcg	gcaagagctt	ctggcctttc	aggtgttgaa	gcaactgcag	2160
tccatttggg	aacaggagcg	agtgtcccct	tggatcaagc	catacaagat	tcttgtgatt	2220
tcggctgata	gtggcatgat	tgaaccagtg	gtcaatgctg	tgtccatcca	tcagggtgaag	2280
aaacagtcac	agctctcctt	gctcgattac	ttcctacagg	agcacggcag	ttacaccact	2340
gaggcattcc	tcagtgcaca	gcgcaatttt	gtgcaaagtt	gtgctgggta	ctgcttggtc	2400
tgtacctgc	tgaagtcaa	ggacagacac	aatgggaata	tccttttggg	cgcagaaggc	2460
cacatcatcc	acatccagct	tggtctcctc	ctctccagct	caccccgaag	tctgggcttt	2520
gagacgtcag	cctttaagct	gaccacagag	tttgtggatg	tgatggggcg	cctggatggc	2580
gacatgttca	actactataa	gatgctgatg	ctgcaagggc	tgattgccgc	tcggaaacac	2640
atggacaagg	tggtgcagat	cgtggagatc	atgcagcaag	gttctcagct	tccttgcttc	2700
catggctcca	gcaccattcg	aaacctcaaa	gagaggttcc	acatgagcat	gactgaggag	2760
cagctgcagc	tgctggtgga	gcagatggtg	gatggcagta	tgcggtctat	caccacccaa	2820
ctctatgacg	gcttccagta	cctcaccaac	ggcatcatgt	gacacgctcc	tcagcccagg	2880
agtggtgggg	ggtccagggc	accctcccta	gagggccctt	gtctgagaaa	ccccaaacca	2940
ggaaacccca	cctacccaac	catccaccca	agggaaatgg	aaggcaagaa	acacgaagga	3000
tcattgtgga	actgcgagag	cttgctgagg	gggtgggagag	ccagctgtgg	ggtccagact	3060
tggtggggct	tcctgcccc	tcctggtctg	tgtcagtatt	accaccagac	tgactccagg	3120
actcactgcc	ctccagaaaa	cagaggtgac	aatgtgagg	gacactgggg	cctttcttct	3180
ccttgtaggg	gtctctcaga	ggttctttcc	acaggccatc	ctcttattcc	gttctggggc	3240
ccaggaagtg	gggaagagta	ggttctcggt	acttaggact	tgatcctgtg	gttggccact	3300
ggccatgctg	ctgcccagct	ctaccctccc	cagggacctc	cccctcccag	ggaccggacc	3360
ctggcccaag	ctccccttgc	tggcggggcg	tgctggggcc	ctgcacttgc	tgagggtccc	3420
catcatgggc	aaggaaggga	attcccacag	ccctccagtg	tactgagggt	actggcctag	3480
ccatgtggaa	ttccctaccc	tgactccttc	cccaaaccga	gggaaaagag	ctctcaattt	3540
tttattttta	atttttgttt	gaaataaagt	ccttagtttag	ccacttgtgt	catttccagg	3600
ttttctgggg	gagtgcaggg	ggagatgggt	gatgaggtat	gaacggatgc	ctcagtgtcc	3660
aagatacaaa	aggcaccaca	tagaagtttg	ctttttccct	gcctgtcttg	gtcactacca	3720
cctcttccct	gagaaggggc	ggccttccat	gttctctcac	ccgcttcaac	tcacacattg	3780
ccaagtccca	gaaaaagaga	ggcctgaatg	gagattcgac	cacaaacagt	tttaattggtc	3840
tggttttctc	cctagtctcc	caactgtttg	ttagtattat	tattactaca	agaataaagg	3900
attcctgaga	gcctgtcccc	tcctctcctg	tggccccctt	gacaggactc	atccctacca	3960
acccccacc	cccccgcccc	ggatttctgg	ggaaaaaaag	aagtgaagg	cactgcaggg	4020
gtagggggct	tgagtgccag	tgagttgggg	ttggggcggg	gcggggggcg	gggtgggcac	4080
tagggcaggg	ccgggcctag	aggaggaaag	ttccagttcca	tgctgaagg	aattgtggag	4140
aggtgtgtcc	atccatgaca	cccccatcag	tccttccctg	aacctgtcta	gcaggcatcac	4200
ctaagtccca	tcctcccacc	cccaggccca	cactgggggt	tctgcagcag	gagcataaaa	4260
tttaattagtg	ttgggctcag	aaaggaggaa	tggagggtcc	actctactag	gactccaggg	4320
ccaaacccaa	agggaggttg	caaataacta	gaataatcct	caaattgctct	tcttcttcag	4380

```

gttgagagaga caggaattaa caaaatatta atgttaatga aaactcccca gccgagggat 4440
caggcagcag tagggaaaac caggctccaa gaggaagggg ctggtcagtc ccaggccttg 4500
gagactagtt gtccccaaca gcccctgcc gagccctgat gaacgccatg ccatgcgtgc 4560
ggaagtgggt cttgaggttt agagggtgt cgcagctctt gccacagacc ttacaggtca 4620
gtgggcctcc agaagcaggc aggggtgagt ctccaccatc ggggtcagac cttgatggag 4680
gggcctcttc ctccccatcc cccagcccca gggcactggc tttaccaca ccccgctctc 4740
tcttgaggct gatgaaacgg tgtcggctca gggagccagg ggaggcaaag cacaagccac 4800
agtgcaggca ctgctgggca ccacctcca cctcaaccc catcatgagg ctctgttctg 4860
tggagctgct gtcgggttag cgcagaggc atgggcctcc agatccaggc ccgccctgg 4920
gggacttggc tggcggtgtc gtgctgtcag gctcctcact gcaagagtca gaagactggc 4980
ggcgtttccg acctggcccc tgggctctgg cactggaacc ccgagccaag gtggtcccc 5040
ggccagggga ctgggcccc agctgcaagc cgtgccggac ctggacatgt ttctctagga 5100
tcaggcggtc gctgaagggt cgttttccct ctgtgcaata cctgcagggg taaactcgct 5160
tgatgccctc gtgattaact cttgacatgg cgcctcaggc tgggggaggc gcagaaggag 5220
cgctcacaca ggcgacaggg gaactttttc actgacttgc catgctcctt cttcatgttg 5280
ccaggtattc atcacgctca gggaaccagg gccacaggtc cagcctccag 5340
gccccccacc cccacccttg aggcctttgc tccctagttc ccgccaggc cgtttggctg 5400
gacggggggg ctgaggggag ctgggtactt cctcctcttc tgaagatgaa gacgactcct 5460
cagtagcagg ggctgcccct ccctgagaaa cagccagctc ctgaggctca gtcttggggg 5520
tcagcagggc acccccgggc cctttccag cagtctctc caagcgcca gactgatggg 5580
tgttcttgag atgttccagc atggtccttt tttgggcaaa gagcagagga caagacgggc 5640
acttaagac actgacacgc tggggcagca agtgcgtgtc gaagtgtgag gagaggaggg 5700
gtttgtgagt gaagactgtg tcgcacatgg cgcacttgta gatcagcttg gcctgctgag 5760
tttttccaag aagatgctgg gagttagggt gggcatgggc acttggcca gacttgaagg 5820
ccatggggca gatggggcac ttgtggaaaa cctcgcagtg cgacgtctgg atgtgggact 5880
tgatggagtt cacaccccca aacaccactg aacagctggg gcacctgtat cctacacggc 5940
gagagacgtg cagacaggcc tcccggagat gggctctgaaa attggcttgc aggaagttgc 6000
ccccacactc aggacagaca tggggggctc gattcttatg catgcgctgg tgggcgctga 6060
agctgcagcg attggggagc atcatggggc aggttgggca cacattgctg gtggccccag 6120
gggcaggggg gccgagctgc tggaaagtga ctgccatgcc agccttgtcc cggcactgtt 6180
ccttgcactc caggcagcga aagcatgtgt aagcagaggc ggcgggggca gcaggcgct 6240
ctgtggagag cggcaggaca ggggcctcag cagcaactgt agtaatggca gaggagggtg 6300
tgccccctc acccttggcc aaggcaggca aggccagagg tccagagaca ggtgggacag 6360
ctacaggcag cagcgtgtg atgtccggt gccccaccat ctggtcaagg gctacaggcc 6420
tcatgaccaa atgtgagcac tgcattgacga gccccttgtc cttgtgttca cgtgcatgca 6480
ggagcaggct gcacttgttg aagaagacca ggcggcgggc gcagtgggtg caggtgacct 6540
cgatgcgcat gctccgacgg tcatagtgcc gtgccaggct cttctccaat gagaaggcat 6600
ccccacactc caggcagcgg tagccgttgg aaggcagggc cagccagacc tcagctgttg 6660
ggctcaggtt tggcctatag gcaggagca ggttcttct gttgaggatc ttgttgaagg 6720
cctccaccag gctggactgg gtccgtgata tccactgtgc cgccccctgt acttggcca 6780
gtagctgtct ttgaaggttg caccatcacc accgaggcac catteacctt ctgtcccca 6840
gtccccagcc ctgcccggcc gtcagcctta ggcagggctt ggggcaccag gcctagcacg 6900
ttctcagcaa tcatcttagg gctggtggca gtccccccag gcagcaccac agccttgcca 6960
gccacactgg ctgccatcag catggcagta ctggcgctct ggatgggtggc cacaggcagc 7020
acagtgcctt tcagccttgt accatcacc aactgtacgc tcaccacctt tggaccctca 7080
gaagttaggtt ttgcagggga cagcttcaag aggttagcct cagccaagaa ggccccctca 7140
gccaaggggg caggtggatc aggatctgag gggacctgag ttacagtcct tgtgagattc 7200
gaccacaaac agttttaatg gtctgatccg caccttaaga ggcttagagg agctggaggc 7260
aggggagtc tttgctgtcct catctgcagc ctggcccca ctgaggggac tctggggact 7320
tcttggggaa gacttgtcca ctggccccct atcatcatct tcttcttca agggctgaca 7380
gacgggcact ttgggggagg caagagggct ctggtgccct ggagactgct tgaagaaggg 7440
cacctcagca actgggggag gcgaggcact ggcaggatg tccgtggcct tagggctgga 7500
gcctgagcct tgttgggcta ggacctgggg atgatgggg ctgcagctct cctgcttcaa 7560
ggcccccaat ggtggggaag aaacagggtg ctgcatgcct ggccattct cctgggccag 7620
ctcaaaggaa gaggggaaag gaggcggggc cagagccccc tcccagtggt gagagggtgc 7680
agagggaggc agcggatctg agtgggtccc tggctcaggg ccaaaatgag caaacaggtc 7740
caagggagtt ttgccttcca tgcctttttc tttccagggt cccccaactg gaggagcagg 7800
agagtgggga gttcctggga gggaagggtc agggctccca aaaccattct gcattcggc 7864
acgc

```

<210> 806

<211> 1908
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1908)
 <223> n = A,T,C or G

<400> 806
 cgtccggccc gggagaagat agcttgaaga ggagttcccc tgctgcctaa ggctaggtag 60
 cgaggctggg tgttgacact gctctgaagc tccaccaaaa ccatccaggt tccacagcag 120
 aaagccatgg caccacttca tccccatcct gccggaatga gaatcaatgt tgtcaataac 180
 caccaggcca aacagaatgt atatgacctg gatgaagatg atgatggat agcttccgtt 240
 cctactaaac agatgaagtt tgcagcctca ggcggctttc tccaccacat ggctgggcta 300
 agcagttcca agctttccat gtccaaggcc ctccctctca ccaaagtggg tcagaatgat 360
 gcatacacag ctctgtctct cccttctctt attcgaacaa aagccttgac caacatgtcc 420
 cggacactgg tgaacaagga agaaccccc aaagagctgc cagctgctga gcctgttctc 480
 agcccattgg aaggcaccac gatgactgtg aataatctgc accctcgagt cactgaggag 540
 gacattgttg agcttttctg tgtgtgtggg gccctcaagc gagctcgact ggtccatcct 600
 ggggtagcgg aggtgtgtgt tgtgaaaaag gacgatgcca tcaccgcata taagaagtac 660
 aacaaccggg gtctggacgg gcagccgatg aagtgaacc ttcatatgaa tgggaatgtt 720
 atcacctcag accagcccat cctgctgcgg ctgagtgaac gcccatcaat gaaaaaggag 780
 agcagagctg ctgcaggggt gaactctgcc tcctctctca acccccctgc cgaagtggac 840
 cctgacacca tcctgaaggc actcttcaag tcctcagggg cctctgtgac cacgcagccc 900
 acagaattca aaatcaagct ttgagcaggg gagtgaggca gccagaagtg ggggcagagg 960
 aggggtggctc tgtttcccca aggcaaagct tatgaccaat gggccatcgg actggagacc 1020
 cctgattgtg ggaagggttg ccagggataa agagcttcct cactggatgg gaccgcctt 1080
 tctgtgtgtg gttctgccct gtgctcttct ctctacgtta acgtttcctg tagtatgttt 1140
 cttcatctca tcgccaagggt aggttgtgt ttttcagtgt gtgcctcccc gagcctcagc 1200
 cccaagctga tttcttatct ggaaatggtt cactgaattc totgggtggc tttcttgttg 1260
 ccccatggga tgcagcgtgg gggctgtctg aaggaccctg ctttttccag gggccgaggg 1320
 gctgcctttc ctttgtgtgt attagcttt tcaaacaatg gaggggatgg agagccctgg 1380
 tgtcctgacg ggagccaggt cggcctgaga gctgtgccgc tcctctgtct tgtcagtgga 1440
 ggtgcctggg tggggagcag gtctcaggcc tcttgtcctc tccccagtgg ctccaggcct 1500
 cactagtggc aagggcagga tgaggctgca ccgctgggaa gagtctatct aagctcttgg 1560
 cttggagtcc cgtgtcgtct ccaccagag gaagtctcc agagtccacc tttccctttt 1620
 ccttgagtgt tgctgaatgc cccaccccag ctctctttcc cttctgggtg tctttgtctg 1680
 gagggggctg tgttgtgagc cctcccgtt ctacacctgc ctggcactta accacacctt 1740
 ggttttgtgt agccgccagc tctcttctgg ttgggccttt gaaagggtca gcgcctggg 1800
 gaggcgggtg tggggacaat tatatgggaa agacgcgggt gtccgcggcc cacaggcgcc 1860
 gggttaacaa aggggacggg gggatatact cccgcggcg ggctgten 1908

<210> 807
 <211> 281
 <212> DNA
 <213> Homo sapiens

<400> 807
 caactatagg gcgaatggag cttcaccgct caggctggtc gcggccgagg tacaagttcc 60
 actctgctac agatgcgtct gtgaagagcc ttgtgccatc caactagtga ctgaatgatg 120
 tcccatctct tatccgagcc agagcacaca tcttccatgc tgcctgctga ttgcctccaa 180
 atccagaaga ccaaataatc ctttatcccc aaagtaggct caaaacagtt ggttcaggca 240
 ttccgggatc tgcaccctc ttaaattcca ggtaaatcac a 281

<210> 808
 <211> 1057
 <212> DNA
 <213> Homo sapiens

<400> 808

```

gagtcgaccc acgcgtccgc ggacgcgtgg gtcagcgtgc acccttcttt gtgctcgggt 60
taggaggagc taggctgcca tcgggccggg gcagatacgg gggtgctctt ttgctcataa 120
gaggggcttc gctggcagtc tgaacggcaa gcttgagtca ggaccttaa ttaagatcct 180
caattggctg gagggcagat ctgcgcagta gggcaacgcg gtaaaaatat tgcttcgggtg 240
ggtgacgcgg tacagctgcc caaggcgctt cgtaacggga atgccgaagc gtgggaaaaa 300
gggagcgggt gccgaagacg gggatgagct caggacagag ccagaggcca agaagagtaa 360
gacggccgca aagaaaaatg acaaagaggc agcaggagag ggcccagccc tgtatgagga 420
ccccccagat cagaaaaacct caccagtggt caaacctgcc acactcaaga tctgctcttg 480
gaatgtggat gggcttcgag cctggattaa gaagaaagga ttagattggg taaaggaaga 540
agccccagat atactgtgcc ttcaagagac caaatgttca gagaacaaac taccagctga 600
acttcaggag ctgcctggac tctctcatca atactggtca gctccttcgg acaaggagg 660
gtacagtggg cgtgggcctg ctttcccgcc agtgcccact cagaagtttc ttacgggcat 720
aggcgatgag gagcatgac aggaaggggc ggtgattgtg ggctgatttg actcgcttgt 780
gctgtaaca gcatatgtac taatgcaggc cgaggccggg agactggagg tacggaaggc 840
tggatgtaac ttgaagtacg aagggcgggt acgagacctt ggggggggtg accccaggag 900
cataggaat ggctcagcca gggacaaagg gtggcaacaa cagcagccag agatcgagg 960
cgagagaaag aaccacaca catgattgct acaccactac agcagcaacc acatcgaacg 1020
gggaagtaac ataacacagc gtagagtggg agcccaa 1057

```

<210> 809

<211> 198

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(198)

<223> n = A,T,C or G

<400> 809

```

nnatcaaaga aggcctgcag ctgaaacagc agatccaatc cattcagcag tccattgaaa 60
gattcttagt ctaaacctgt ggccctctgc acgtgctccc tgccagcttc cccctgagg 120
ttgtgtatca tattatctgt gtttagcatgt agtattttca gctactctct attgttataa 180
aatgtagtac ctgcccgcg 198

```

<210> 810

<211> 468

<212> DNA

<213> Homo sapiens

<400> 810

```

aattcggctt agcgtggctg cggccgaggt actcggccgg tggggacctg atgctgcaca 60
tccacagcga cgtgttctct gagccccgtg ccatctttta ttccgcctgc gtggtgctgg 120
gcctacagtt tcttcacgaa cacaagatcg tctacagggg cctgaagttg gacaatttgc 180
tcctggacac cgagggctac gtcaagatcg cagacttttg cctctgcaag gaggggatgg 240
gctatgggga ccggaccagc acattctgtg ggaccccgga gttcctggcc cctgaggtgc 300
tgacggacac gtcgtcctta tgcatagatc tgaattcaga ctttgtgaat ttccagagg 360
gtgggtaata taatagaatt cagtgaagtg gcatggctga tcttgtgcaa attaaaagtt 420
atggggcata agaatagcaa aagttgaact tcttttaaaa aggaaagt 468

```

<210> 811

<211> 3029

<212> DNA

<213> Homo sapiens

<400> 811

```

gtcctaccat cttctcggag ccggagtgcg aagaaataaa gaaatagtgc tttaagtcaa 60
tgaattcctc cttgggacct actatcgaga aactatcagt ggtaacgttt taaaaaatga 120
caaattcaat ctgctcctga cttgtgtgtc ctaagatttc cactaagtgt cttcaaacct 180
ccccctcccc ggcttccttg ataatagaag ttcccgaagg ccgccgattc cagaagatac 240
tgtctggcgt gaaattagtc tcagtagaaa cataagtccc gcgcgtcttg tgctgcgcgt 300

```

```

gcgcaagctt ttggggccctc ccgagaaaagg gaagtgcatt ctgcgttccg tagcgggtctc 360
cgccgggttg gggaaaagtaa ttccggctgt tgcaccatgg cgtccatggg gaccctcgcc 420
ttcgatgaat atgggcgccc ttctctcatc atcaaggatc aggaccgcaa gtcccgctctt 480
atgggacttg aggccctcaa gtctcatata atggcagcaa aggtgttagc aaatacaatg 540
agaacatcac ttggaccaaa tgggcttgat aagatgatgg tggataagga tggggatgtg 600
actgtaacta atgatggggc caccatctta agcatgatgg atgttgatca tcagattgcc 660
aagctgatgg tggaaactgtc caagtctcag gatgatgaaa tcggagatgg aaccacagga 720
gtggttgctc tggctggtgc cttgttagaa gaagcggagc aattgctaga ccgaggcatt 780
caccacaatc gaatagccga tggctatgag caggctgctc gtgttgctat tgaacacctg 840
gacaagatca gcgatagcgt ccttggtgac ataaaggaca ccgaaccctt gattcagaca 900
gcaaaaacca cgctgggctc caaagtggc aacagttgtc accgacagat ggctgagatt 960
gctgtgaatg gcgtcctcac tgtagcagat atggagcgga gagacgttga ctttgagctt 1020
atcaaagtag aaggcaaagt gggcggcagg ctggaggaca ctaaactgat taagggcggtg 1080
attgtggaca aggatttcag tcaccacag atgcaaaaaa aaagtggaa atgcgaagat 1140
tgcaattctc acatgtccat ttgaaccacc caaaccataa acaaagcata agctggatgt 1200
gacctctgtc gaagattata aagcccttca gaaatacgaa aaggagaaat ttgaagagat 1260
gattcaacaa attaaagaga ctggtgctaa cctagcaatt tgtcagtggg gctttgatga 1320
tgaagcaaat cacttacttc ttcagaacaa cttgcctgcg gttcgtggg taggaggacc 1380
tgaaattgag ctgattgcca tcgcaacagg agggcggtac gtcccaggt tctcagagct 1440
cacagccgag aagctgggct ttgctggtct tgtacaggag atctcatttg ggacaactaa 1500
ggataaaatg ctggtcatcg agcagtgtaa gaactccaga gctgtaacca tttttattag 1560
aggaggaaat aagatgatca ttgaggaggc gaaacgatcc cttcacgatg ctttgtgtgt 1620
catccggaac ctcaccgcg ataatcgtgt ggtgtatgga ggaggggctg ctgagatata 1680
ctgtgccctg gcagttagcc aagaggcgga taagtgcctc acctagaac agtatgccat 1740
gagagcgttt gccgacgcac tggagggtcat ccccatggcc ctctctgaaa acagtggcat 1800
gaatcccatc cagactatga ccgaagtccg agccagacag gtgaaggaga tgaaccctgc 1860
tcttggtatc gactgtttgc acaaggggac aaatgatatg tagcaacagc atgtcataga 1920
aaccttgatt ggcaaaaagc aacagatatc tcttgcaaca caaatggta gaatgatatt 1980
gaagattgat gacattcgta agcctggaga atctgaagaa tgaagacatt gagaaaacta 2040
tgtagcaaga tccacttctg tgattaaagta aatggatgtc tcgtgatgct tctacagtta 2100
ttcattgtta catccttttc cagacactgt agatgctata ataaaaatag ctgtttggta 2160
accatagttt cacttggtca aagctgtgta atcgtggggg taccatctca actgcttttg 2220
tattcattgt attaaaagaa tctgttttaa caacctttat cttctcttcg ggtttaagaa 2280
acgtttattg taacagtaat taaatgctgc cttaatgaa ggggtttggg tggatttttt 2340
tttctcaaaa taagctgtag ggactatttt aacagcttaa acaggagctc tcaagatgca 2400
cttttgattt gagaggaata tgggcttgat cctcttctta tctaaatggg tgggccattt 2460
gattgtagag ggtccaccac agaattatgg gatgccttaa gtgctgttac taggttgctc 2520
acagcctaac ctggcggtgt gtttagggct gatggagacc catgtgagcc ttgctttcc 2580
tctggcccca gccccaccct gaacacagtc atacgcagaa tcaggaccag catgtgcaga 2640
gctggccaca gcacaggctt agggcagtc gaacccattg tttcctactc agagggacac 2700
agtgcacgtg ggaggttcaa gggtaacctt caccggcaat tcagggcgaa actctggcag 2760
tcacccatgt tcagaatgga ggactggaaa tttaatatgc cttactata ggtcatcacc 2820
tactaccagt gatggcccag gaagctccga gaacaatgtc acggatgtag gaccggccaa 2880
ccaggaagcg aactacattc ctagccacat gtcacgaggg acaccaaagg gccgactaca 2940
caaaagagcg cggaacaacg atgcacaaag gcacgagcac atccagcatc agggaaaaaca 3000
gaagcaatcg cccgaaaaca agaactcag 3029

```

<210> 812

<211> 1746

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1746)

<223> n = A,T,C or G

<400> 812

```

nnagggaaac tgtgagggcg gcaccggaag tggcgagcag tctgcgcgcg gatggccgca 60
gcggcgatgg cggcagcggc aggtggaggg gctggcgcgg cccgctccct ctgcgcttc 120
cgaggtgcc tggctggcgc gctgctcggg gactgcgtgg gctccttcta cgaggccac 180

```



```

gacaccgtcg acctgacgtc agtcctgcgt catgtccaga gtctggagcc ggaccccgcc 240
acgcccggga gtgagcggac agaagccttg tactacacag atgacacagc catggccagg 300
gccctggtgc agtcctgtct agccaaggag gcctttgacg aggtggacat ggctcacaga 360
tttgtcagg agtacaagaa agaccctgac aggggctatg gtgctggagt agtcaactgtc 420
ttcaagaagc tcctgaaccc caaatgtcgc gatgtctttg agcctgcccg ggcccagttt 480
aacgggaaag gtccttatgg caatggagggt gccatgcggg tggctggcat ctccctggcc 540
tatagcagtg tccaggatgt gcagaagttt gcccggctct cggcccagct gacacacgcc 600
tcctccctgg gttacaatgg cgccatcctg caggccctgg ctgtgcacct ggccctgcag 660
ggcgagtctt ccagcgagca ctttctcaag caactcctgg gccacatgga ggatctggag 720
ggtgatgccc agtccgtctt ggatgccagg gagttgggca tggaggagcg tccatactcc 780
agccgcctga agaagattgg agagcttcta gaccaggcat cggtgaccag ggaggaagtg 840
gtgtctgagc tagggaatgg cattgtctgc tttgagtcgg taccaccgc catctactgc 900
ttcctacgct gcattggagcc agaccctgag atcccttctg ccttcaatag cctccaaagg 960
actctcattt attccatctc acttgggtgg gacacagaca ccattgccac catggctggg 1020
gccattgctg gtgcctacta tgggatggat cagggtgccag agagctggca gcaaagctgt 1080
gaaggctacg agagacaga catcctggcc caaagcctgc accgtgtctt ccagaagagt 1140
tgatgagggc tacagctgtt ggggctctgc cagggtccct gggaccaact acagctccaa 1200
tcagaaaccc tgcgcttctt tgagtgtggc ttccacttt tctgcattg tggagctgac 1260
tgagtacacc ggtgaggctg gggctctctg aggggaggtc actggaacag cgagcaaggg 1320
actggtgcct cgctggtgct gggctctctg tttgctgcag agccgtagga cactcctggc 1380
tcctcagtag gacagacaga cgcaggcggg tttatthttg aggggtactt gtggcatttt 1440
cctgtattgt cttggacatg ggatgtgggg aggtggaaat gatgagcagt agcatcattt 1500
ctccctgttg ggttttagcc agtttgccag caagcgcctc ctgacagggt ccccgagcag 1560
caggttggtg ggatgaagg acaggcactt gcattccagc gatctaggct acacctggct 1620
cttggtgccc atgtggctta ttaacagctt ccagtggaa gtcgaataaa cagttttttg 1680
taaactctcaa aaaaacaaaa ccaaaaaaaaa aaaaaaaaaa agggggggag caaaaaaann 1740
nnnnnn

```

<210> 813

<211> 1690

<212> DNA

<213> Homo sapiens

<400> 813

```

acgctccgg tgcgaaagcc cgggactcgt ggagttgtga acgcccggga ctccggagcc 60
gcacaaacca gggctcgcca tgaagccagg attcagtcct cgtgggggtg gctttggcgg 120
ccgagggggc tttgtgacc gtggtggctg tggaggccga gggggctttg gcggggggcg 180
aggtcgaggg ggaagcttta gaggtcgtgg acgaggagga ggtggaggcg gcggcgggcg 240
tggaggagga ggaagaatgt gatggtggag ccgcatcggc atgaggggtg cttcatttgt 300
cgaggaaagg aagatgcact ggtcaccaag aacctgggtc ctggggaatc agtttatgga 360
gagaagagag tctcgatttc ggaaggagat gacaaaattg agtaccgagc ctggaacccc 420
ttccgctcca agctagcagc agcaatcctg ggtggtgtgg accagatcca catcaaaccg 480
ggggctaagg ttctctacct cggggctgcc tggggcacca cggctctcca tgtctctgac 540
atcgttgggt cggatggtct agtctatgca gtogagttct cccaccgctc tggccgtgac 600
ctcattaact tggccaagaa gaggaccaac atcattcctg tgatcgagga tggctcgacac 660
ccacacaaat accgcatgct catcgcaatg gtggatgtga tctttgctga tgtggcccag 720
ccagaccaga cccggaattg ggccctgaat gccacacct tctgctgtaa tggaggacac 780
tttgtgattt ccattaaggc caactgcatt gactccacag cctcagccga ggccgtgttt 840
gcctccgaag tgaaaaagat gcaacaggag aacatgaagc cgcaggagca gttgacctt 900
gagccatatg aaagagacca tgccgtggtc gtgggagtgt acaggccacc cccaagggtg 960
aagaactgaa gttcagcgt gtcaggattg cgagagatgt gtgttgatac tgctgtggtt 1020
tgaatgttcc ctccaacact catgttgaga cttaatccct aatgtggcaa tactgaaagg 1080
tggggccttt gagatgtgat tggatcgtaa ggctgtgcct tcattcatgg gttaatggat 1140
taatgggtta tcacaggaat gggactggtg gctttataag aagaggaaaa gagaactgag 1200
ctagcatgcc cagcccacag agagcctcca cttagtgat gctaagtggg aatgtgaggt 1260
gcagctgcca cagaggggcc ccaccaggga aatgtctagt gtctagtggg tccaggccac 1320
aggaaagagt gccttgtgga gcgctgggag caggacctga ccaccaccag gacccacaga 1380
ctgtggagtc agtggcagca tgcagcgccc ccttgggaaa gctttaggca ccagcctgca 1440
accattcga gcagccacgt aggtgcacc cagcaaaagg acaggcacg ggctacctga 1500
ggccttgggg gcccaatccc tgctccagtg tgtccgtgag gcagcacacg aagtcaaaag 1560
agattattct cttcccacag ataccttttc tctcccatga ccctttaaca gcatctgctt 1620

```

cattcccctc accttcccag gctgatctga ggtaaacttt gaacgttaaa taaaagctgt 1680
gtttgagcat 1690

<210> 814
<211> 1139
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1139)
<223> n = A,T,C or G

<400> 814
nnnatctgta aagagtacaa tgcgtgtggg ccaccgggc ccaacatttt ctgtgtaccc 60
ccgttttttc tccatagcct tccagggtgc agcgcccggt gtttcgcccc ctcttggttg 120
ttcttttttt ggagttcgcc taccttatca gggatgaaaa acagttgaaa catactgccg 180
cagatttcac tgtgccggcc tataaaggaa acaaccctgt tgaagctgtg gagtttttta 240
cgaagacccc ttactataat tggctactac ctccgtatca gtcacgataa cagcagtaga 300
tatccccggg ttagcatcca gagctgagtg ccccaaggaa gacagaggca atggcagaat 360
aatatgctga gaaaggactc ttaagagcaa taaaaagaga acagacaaaa atctcaccac 420
aaaattgtac ctgagtgcac gattggtaaa gtgttttact tttttttttt cttttcgctc 480
tttggctcga caagaaaaa gttttagggtg tgtgaagtag ggtgggaaaa aagggtcagtt 540
tcaaattcag taacatatgg taacactaag ttaggtgctt gcattctttt ctttgggtac 600
ttaagccagc tggcacttcc actttgtaac caattatatt atgatcaaca actaatcagt 660
tagttcctca gcttcaactg aagagttcct gattacctga tgaaggacat acttgctctg 720
gcttcaatta gcatgctgtc aagcatccct ctccatgctt aacatggcaa cacaaaaccc 780
aagagtcctt ctcttttttt cattagccat gaataaacac tcacaaaagg gaagagtaga 840
cactgctttt agtaaacgtc cttttttctt acctcccttt tccaatgcca agttcatatg 900
aaaaacttta gaaacattaa aatggagaac tctctacccc aaaaagtaat tctcattcca 960
gactactcta tcaggcagga ttactgtacc gtgcttgttt caaactcaca tccacggagg 1020
gataaaaaga caaaataaaa cttgacagtg tgatacaaca tgaaaatctc ctaaaccatc 1080
aggagcaaac actcagttaa aagctgggtg ttaacaagcg gacgcgtggg cggacgcgn 1139

<210> 815
<211> 602
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(602)
<223> n = A,T,C or G

<400> 815
nggagctacc cgcgggtggcg gccgcccggg caggtagcgc gggacatttt ctcgccctg 60
ccagcccccga ggaggaaggt ggggtctgaat ctaccacat gacggaacta gagacagcca 120
tgggcatgat catagacgtc ttttcccgat attcgggcag cgagggcagc acgcagaccc 180
tgaccaaggg ggagctcaag gtgctgatgg agaaggagct accaggcttc ctgcagagtg 240
gaaaagacaa ggtatgccgtg gataaattgc tcaaggacct ggacgccaat ggagatgcc 300
aggtggactt cagtgaagtc atcgtgttcg tggctgcaat cacgtctgcc tgtcacaagt 360
acctcggccg ccgcctgcat ttttttaaag ggcatttgag gggaggatta ttgctatgaa 420
tgaaaaaaat attttagctt agactaagct acctgccttc aaaatagttt agggaccacc 480
accatatttg attttggttt tattcttgaa catttttcta atgatttgga gagaaaacta 540
tttacaaaaa ttccacatat caaggatata atttctttgc tgtcaccaat tttttataat 600
an 602

<210> 816
<211> 1195
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1195)
 <223> n = A,T,C or G

<400> 816
 naacccttcc ccagctgttt tcacccgttt aagtaagttt tgtaccctc cgtccggaca 60
 aaaaatttat ttggtcdata cagtcttaag ccttcaggac ggatgtatgg cccctaagcc 120
 cattcagatt ttactgccac aactgacacc ccttcagag tgaacccct ttctatctcg 180
 gaagtccatc attccctcaa cttctgatct ctccagttcc agtcaaaaac cagaaatttt 240
 aaggggctca aattaaggcc accttgttta acaagttctt taattctccc cggagttcct 300
 acaccaggt gcaccacacg cttctccagc aactttacct gcgcctggac ctttatgtgc 360
 tttgcaaata attttataac tttgccgtct cctctgaatg ctgtcatcga cctaattgagc 420
 tccagggtcc ggacggccga gctgcagatg atcagcatca ggaccgattt cttctcactg 480
 tggttcttcc taagttttac ccacttagga caaatttctt ttaggtatga ggaaagactg 540
 tgagtcaaat cattggcctt gaggaacag gagtctggca gggtcagttc ttctaattca 600
 atcaccaagc gtctgctgct ataatagtcc ttcacagct tctgtaggtc ttcaggtaac 660
 cctggttttg gttctgattt tgcaagaaca tcagtaattt tcttctttct tcttttctcg 720
 gtcttggtgg tattctcttt tctttccttt ggttgatca aaaaacattc tttaggctgt 780
 ttggttttct ctgaaggtag aggaactgga actgtctcct gctgcacac ttctgtgtct 840
 ccttctcctt caccatctga tgcttctggg ctgctgctg ctccagtcgg ctggttctcc 900
 caccactcgt tcccgagatc gtctgccatt tctcgacgtg tctcgacgtg ggcagaacat 960
 cacgggtagg cgaccagctg cggagaatca cgttgctcga aagccaggcg gccggcgtag 1020
 ctacacgcgg agtcccgtct agacactgtc gctccgccc cgcgcgcatg acgtcacacc 1080
 tctgccccgc ctctccggca gccgtccca gactcgtcgc agtttccaca caggcgccga 1140
 caggcagaag cagtttgga acgcaacata aatccccca aagatttata cnnnn 1195

<210> 817
 <211> 1704
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1704)
 <223> n = A,T,C or G

<400> 817
 ncacgcgcga acgcgggggtg ggccgggcct cgcgtagccc atctcctctt cctcctcgcg 60
 gtcgcggccg gacggagggt ggagggccct gcgcctgcgc ggagctggag tccggctggg 120
 ccgcagccgc tgggagaccg gcggttgccg tggggaccgg tccggccctt cctcctccg 180
 gtccccgcgc ccaggtcctt cccaccagag acgcgcgggc ggaccgcggg cgagtgcagc 240
 cggtagcccg gcgagaggcg gcgcgcctcc caagatgtcg cagacggcca tgtccgaac 300
 ctacgatttt ttgtttaagt tcttggttat tggaaatgca ggaactggca aatcttgctt 360
 acttcatcag tttattgaaa aaaaattcaa agatgactca aatcatacaa taggagtggg 420
 atttggttca aagataataa atgttggtgg taaatatgta aagttacaaa tatgggatac 480
 agcaggacaa gaacgattca ggtccgtgac gagaagttat taccgaggcg cggccggggc 540
 tctcctcgtc tatgatata ccagccgaga aacctacaat gcgcttacta attggttaac 600
 agatgcccgga atgctagcga gccagaacat tgtgatcatc ctttgtggaa acaagaagga 660
 cctggatgca gatcgacgaa gataaccaac atagaaggca ccaaaaatgc tccagaacac 720
 gagcggcagt acggcaacaa gggcccccacc ggggcacacc tacacagcgc agagaccggg 780
 gccgccacag acgacacgaa ccgagacggc cccaaaaagg caggaaagag ggaacgtcgt 840
 aaagcagtg tctcagcgac gaagcaacaa aaagagatga gaagcgacca gtacggaccg 900
 cacacgcgac ggcaccagta ctgtcatcag cctaacgaat gtaagcaaga agcgaacatc 960
 tcctgtgtgg ccggggcgac aaggggagaa ggcgaaagaa gcagcgaaaa accacagaga 1020
 acatcgagaa aagacaagga aagaggagaa acaaaaacag gagagaacag aaaagaagaa 1080
 gggcgaagag ccggcacggc agaaacgaga cacaagggaa agtaaagcag gaggaaggaa 1140
 gagggagaaa aagaaaagag aaagaggag aaaagccaca gaaaaagaag agaccacaga 1200
 gagaacaaga gacaaaagga ggaccgagag aaggacaga ggacacggaa gaagacgaaa 1260
 agaaaaaaga cggacagaaa gagaaccaaa aacaaccaga gagaagaaa acagaaaaga 1320

```

gaaaggagaa aggagacgac agcaaagaga agcagccaag agaaaaaata gaaggaacaa 1380
agagaagaga aggagacaga aacagacaaa caagcacaga accgaagaac gacgatagag 1440
acaaagacaa cgagaagaga agaagaaaac aagcagagac gacagagaca ggaaaagacg 1500
agggaaagga agagaaagag caagagagag agcagcgtga ggaggagaac gatcaagaca 1560
gaggagacag aggaccagac agcaagaagc aagaaaaccg aaaacgaaac gaaagaagag 1620
aagaagaagc agacggacag aagacgacaa gcaaacacca gaagaaagaa agagaaagga 1680
gacacacaac acgaagacga agan 1704

```

<210> 818
 <211> 1874
 <212> DNA
 <213> Homo sapiens

```

<400> 818
gtccgtgggc gtttgtgtgg taggggggtg gtgattgctt ttgttgtgag atgataat 60
cgtgccggat cctgtgtgtcc attgtgcaat gcagctggat aggaccggga caatgcctgt 120
ttgccagggc gattcagggt tggcctggcc acagaggcaa tcgcttgctc acagccggtg 180
attcgtgggt ttggctttaa catccaccaa tggaacacag tggcgggtgt ttttctatc 240
ttcgtgcag gtcagactcc agtggtcagc tgtaatcttt tagtattgca tattgtcagc 300
ctgttgtcc tggagcgtc tccccgagat atgtgggctt tcgtccggag tcgcagtgtc 360
ttcggccccg gaagtgggt actgtgatcg ttctgttgct ctttctgtg ctgtggacac 420
ctgttcacac acttgccctt gtggcctttg taagccttcg ctttggcttc agcttttagg 480
ggggcacgga gcttccttct tctttttttt tttttgtt taaaagccct ttataaagc 540
cattttttaa caaaacaaaa aaaaagttaa caaaagaaaa aaagatacag aaaaagaata 600
acttgcttca tatgtcccaa aaagagaaaa aaataaaggg gacaatgcca acatgctcaa 660
caataaaggc ttctttttct tttttttt atacaaaata caagcaaagg atacacatac 720
ttaaacaga gctcaggagc agacacgcag tcctggaaac ccttcaataa aagcaaagca 780
ggagtttgtt ttttctttgt ctatgcagat acatacagag actgggatat gtaaaaatta 840
agtatcaca aagaccatca cagattcta ccaatgcag ttgcatctgt aattcacgaa 900
catggtcaac aaaatcatgt tcacttcaac cccatttcat ttaaattaaa gaaaaaac 960
ttttaataa agtggttaca ttcaaacctt aacttcctta gtaccatgct gcagatttca 1020
gcactgttaa ggtattgcaa gaatgcccaa ccctctgggt tctgatcatg tatctagcaa 1080
cattgcagta tgaagaaaag agatgccccg gtctcagccc atggactagt taatacagt 1140
aagcagggtc ctgtctttta cccttcctgc tcagaacata aaagattaag gactaaaatc 1200
aaggaagact gggagtttta gagctggcaa aatgaagtct aaaagataaa tcaaggcaaa 1260
caattactga gaacttggct gttgcttaac ctggcaagtc taaaagcctt tctttaacct 1320
tgttagaatt agatgcataa ggtttgtctg aacatgttca tggtaacaaa actaagtaga 1380
gctcttattt acaaactctg taacaaatc ttctggagga aaaagagaaa agaattcact 1440
aagttccaga agacaaagct ttaattgcca gacgtataca aacacacact cacacgtaca 1500
caccacaca atacttcagg ggtttttata catgttattt tagggcataa gctgagtact 1560
atacccccc accccatcaa aaaaggaaca acaaaaaaat cccaatttta ccctcccca 1620
ataatctagg aaaaccctcc cttcaccctt ggatgtacaa agtgtatggc acaacgggtg 1680
gcattctacc agccacacaa aggcattgct caaacagatg ttcaccagt cagttcactt 1740
ccattgggca tgggcaacag ggcaggttta cggggttgtt ttcccaatag gtgggttatt 1800
tacacagttc aggcaccact ggtggaattt tgtggttttt ggaaagaaaa ggtgtaattt 1860
ttggggtttc gggg 1874

```

<210> 819
 <211> 2776
 <212> DNA
 <213> Homo sapiens

```

<400> 819
cacgcgtccg gagagtcagc tgggtggccc tgggatggaa cagatgcgga gagatccata 60
gtatcaccaa gtgaaagctg cggccccatc aatgtgaaaa ctgaacccat ggaagattct 120
ggaagccacc cttcttcac aagcaatgaa gtaatagaaa tgggaattacc aatggaagat 180
tccactccgc tggctccctc agaagaacca aatgaggacc ctgaagccga ggtgaaaatc 240
gaaggaaaca caaattcatc cagtgttaca aattctgcag cagggtgtga agatcttaac 300
atcgttcaag tgactgttcc agataatgag aaggaaagat tatcaagcat tgaagagatt 360
aaacagctaa gagaacaagt taatgacctc tttagccgaa aatttggtga agcaattggc 420
gtggatttcc ctgtgaaagt tccctacagg aagatcacat tcaaccctgg ctgtgtggtg 480

```

```

attgatggca tgccccggg ggtggtattc aaggcccccg gctatctgga aatcagttcc 540
atgaggagga tcttgaggc agctgagttt atcaaatcca cagtcacag gccgcttcca 600
gggcttgagc tcagtaatgg tgagtattct acagtgggaa aacgcaagat agaccaggag 660
ggcgtgtgt ttcaagaaaa gtgggagaga gcgtatttct tcgtggaagt acagaatatt 720
ccaacatgtc tcatatgcaa acaaagcatg tctgtgtcca aagaatataa cctaagacgc 780
cactatcaaa ccaatcacag caagcattat gaccagtata cggaagaat gcgtgacgag 840
aagcttcacg agctgaaaaa agggctcagg aagtatctct taggctcgtc agacaccgag 900
tgtcccgagc aaaaaacaagt gtttgcaaac ccaagtccaa ccagaaaatc ccccggtgac 960
cctgtagagg acctagctgg gaacttatgg gagaagttac gtgaaaaaat caggtctttt 1020
gtgcatatt ctatcgcaat cgatgagatc acggatataa ataataccac ccagttggcc 1080
atattcatcc gtggtgtcga tgagaatttc gatgtgtccg aagaacttct ggacacggtg 1140
cccatgacgg gtacaaaatc tggcaacgag atctttttgc gtgttgagaa gagcctgaaa 1200
aagttctgta tcaactggc gagattagta agcgtggcct ccaactggcac ccagcgatg 1260
gtggatgcca ataacgggct tgtcacaaaa ctgaagtcca ggggtggcgac gttctgcaag 1320
gggtgcggaac tgaagtccat ctggtgtata attcatccgg aatcactctg tgctcagaag 1380
ttgaagatgg accacgtcat ggacgtggtg gtgaagtccg tgaactggat atgctcccgg 1440
ggcgtgaacc acagtgagtt cacaaccttg ctctatgagc tggacagcca gtatggtagc 1500
ctcctgtact acacggagat taagtggctc agtcgcgggc tcgtgctaaa gagatttttc 1560
gaatccttgg aagaaatcga ctcttcatg tcatccagag ggaaaccct gcctcaactg 1620
agctccatag attggtaccg agacctggcc ttcttggttg acatgacgat gcatctgaac 1680
gctttgaaca tctcttcca aggacactcc caaatcgtca cgcagatgta tgacctgatc 1740
cgggcgttcc tagcaaaact gtgcctctgg gagactcatt tgacgaggaa taatctggcc 1800
cactttccca ccctgaaatt ggtttccaga aatgaaagcg atggcctgaa ctacattccc 1860
aaaatcgcg aactcaagac cgaattccag aaaaggctgt ctgatttcaa actctacgaa 1920
agcgaactga ctctgttcag ctcccgttc tccacgaaga tcgacagtgt gcacgaggag 1980
ctccagatgg aggttatcga cctgcaatgc aacacgggtc tgaagacgaa atacgacaag 2040
gtgggaatac cagaattcta caagtacctc tggggtagct acccgaaata caagcaccat 2100
tgcgcaaaga ttctttccat gttcgggagc acctacatct gcgaacagct gttctccatt 2160
atgaaactga gcaaaacaaa atactgctcc cagttaaagg attccpagtg ggattctgta 2220
ctccacatcg caacgtgatg gagagaaaac tcctggcagg gccctatggg gggaaaggct 2280
ggagtcttct agtcccaagg gattgggaga tgacaaaatg aatttttttt tttctttttt 2340
gagtgagat ctctgtctgt cgccaggtt ggagtgagtg ggcgtgatct cggcttactg 2400
caacttcag ctctgggtt cgaacgattc tcctgcctca gcctcccgag cagctgggac 2460
tacaggcatg cgccaccatg ccgggctaatt tttgtatta gtagagatga ggtttccca 2520
tggtggcoag gctggtctcc aactcctgac ctgaggtgat ccacctgcct cgacctcaca 2580
aagtgtggg attacaggca tgaaccactg tgcccagctg acaaaatgag ttcttaaaact 2640
ttttttttt tttcagttt ttttccactt tgaatcagaa atataatctg cagtatcata 2700
cttgtttata ttacattgta tgcctcacta ttcattaaaa atcaagaaag ttttattgta 2760
aaaaaaaaa aaaaag 2776

```

<210> 820

<211> 1487

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1487)

<223> n = A,T,C or G

<400> 820

```

nctggtctc tetaaccgag ccagtgtgcc tccgactcgg aacggcttcc gcggccgggg 60
cagcgagggc cggggggcggc gggcgggatg agtgcgggtg gcggtggagc ggcgcgagtg 120
ctgcggacgc cgggacgcca cggtacgccc gccgagttct ccccgtaact gccggggcgc 180
ctggcctgag ccaccgagca gcaactacggc atcgcgggct gtggaaccct actaatattg 240
gatccagatg aagctgggct aaggcttttt agaagctttg actggaatga tggtttgttt 300
gatgtgactt ggagtggagaa caacgaacat gtccctcatca cctgtagtgg cgatggctcg 360
ctgcagctct gggacactgc caaagctgca gggccaactgc aagtctataa agaacacgct 420
caggaggtgt atagtgttga ttggagccaa accagaggtg aacagcttgt ggtgtctggc 480
tcatgggatc aaactgtcaa attgtgggat ccaactgttg gaaagtctct gtgcaccttt 540
agaggccatg aaagtattat ttatagcaca atctggtctc cccacatccc tggttgtttt 600

```

```

gcttcagcct caggatgatca gactctgaga atatgggatg tgaaggcagc aggagtaaga 660
atcgtgattc ctgcacatca ggcagaaatc ttgagttgtg actggtgtaa atacaatgag 720
aatttgctgg tgaccggggc gggtgactgt agtttgagag gctgggactt aaggaatgta 780
cgacaaccag tgtttgaact tcttggtcat acctatgcta ttaggagggt gaaattttca 840
ccatttcatg cttctgtgct ggcctcttgc tcgtatgatt ttactgtaag attctggaac 900
ttttcaaagc ctgactctct tcttgaaaca gtggagcatc atacagagtt tacttgtggt 960
ttagacttca gtcttcagag cccactcag gtggctgact gttcttgga tgaacaata 1020
aagatctatg accctgcttg tcttactatt cctgcttgag atacactact ttggtcagaa 1080
acagaggatg ttggctgaag aactgcctaa cagcaataaa attaactatg gaaaacatag 1140
acattatgct tttatatgct attcagattt caaatctttc caatttacc tggaaatcagt 1200
tttgagggag ctgataaaga ctttagctga ctctgtaagc ctgatacata agccatattt 1260
aaaattctaa gaaataatta atgttatgat atatcttgta gtatctatta aaatgtctct 1320
gggtcataaa atggattaaa atatgggaga tcagtaggtt atacttatat agatagtgat 1380
atatttcatt ttttaattgt catttttgat gtaaaatata atcaactgctg tgataaataa 1440
actatctatt gatcatttat caaaaaaaaaa aaaaatcgcg gccgcaa 1487

```

<210> 821

<211> 2062

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2062)

<223> n = A,T,C or G

<400> 821

```

nnnggctctg cggctccgct cgccgcactt tacggcagtg tggctggagc cgcggtgacg 60
ggcccgcggt ctgggctgta gtgcaggaag tggagtattt gctgggcccg gtaccatgga 120
cgtgggcgaa cttctgagct accagcccaa taggggcaca aaacgtcccc gggatgatga 180
agaggaggag cagaagatgc gtcgaaaca aactggtact cgagaacgag gccgctatcg 240
ggaagaagaa atgactgtgg tggaggaagc ggatgatgac aaaaaaaggc tgctgcagat 300
tattgacaga gatggggaag aggaagagga agaggaggag ccattggatg aaagctcagt 360
gaagaaaatg atcctcacat ttgaaaagag atcatataaa aaccaagaat tgcgattaa 420
gtttccagac aatccagaga agttcatgga atccgagctg gacctaaatg acatattca 480
ggagatgcac gtggtggcca ccatgccaga cctgtaccac cttctggtgg agctgaatgc 540
tgtacagtcg cttctcggct tgctcggaca cgataatata gatgtgtcca tagctgtggt 600
cgatttgctt caggaattaa cagatataga caccctccat gagagtgaag agggagcaga 660
agtgtctatc gatgtctggt tggatgggca ggtggttagc ctgctggtac agaattctgga 720
gcgcctggat gagtctgtga aagaggaggc agatggcgct cacaacactc tggctattgt 780
ggaaaacatg gctgagttcc ggcctgagat gtgtacagag ggtgcccagc agggctcttct 840
acagtggctg ttgaagaggc tgaaggccaa agatgccttc tgatgccaac aaactgtatt 900
gcagcgacac gccgggacat cactgctcca gcgaccagtg agtcaacagg gcacaggctg 960
gagagaccgg atggcatcgg cgtgccgctc acacgcaatc cgacagaca gcaacacacc 1020
acacaccgca tagaatagaa atcaggcgaa atcgtctga accgaagaaa cgaagggga 1080
gacacccgaa ccgatcacga gggaggggcc cgacagacc cgcaagaaaa aaaccgaaca 1140
acacaaagtg gcaacaatag ccgcgaacaa cgaagtgcgg catcgagcgc cccgtatcca 1200
cactagccta agaagatcac acaaggactt atatgcgcgc gtccaacaca tcaccggcgg 1260
cggaggctcg acgagacaag gaagagagaa aataggagga cgaggaggag gaagagcag 1320
agggcgaggg cgggcggaaca ggggagaggg ggcgagcgag aggacgagag agcgagcaga 1380
aggagggggg agggagacga gggcggcgcc gacacagcgg acgaccgcgc agaaggccga 1440
acgaaagtgc aggcgaaccg gcagggcaca gacggagaga aggagcagcc agcacagcgc 1500
gcaaagagcg aagacccgca cgccgggaac gcagagaaag gaaagggcgg 1560
agaaaacgaa aagaagagac ggagactaga ggccggacaa aagtacgaca agccgggaca 1620
gcagccgcca gaaggagccc gagcaggacc cgagcacgag aagcacgaca gaccgacgcg 1680
accgacgcga cacacgccgc acgcgcgcag gagcagaagg cggagagaga cacacgcaga 1740
ggaagaacac acacaagcac gcgcgcaaac acacgcgaat ctgacaaaga cacaggccga 1800
cagcgcgagc gcgagcgccg acacaaagaa cgcgacaggg cacaggacaa gcagagaccg 1860
agcgaggccg cgtcgacaag acagagagga caacagccaa gaatgcagcc gcgcacaca 1920
cccaacacca gagagaacgc gggcagagcg acagaagagc cacacaacga gcacggacgc 1980
acaccaggca gcagcaggac aagcaagcac acggcacagc gacccacgaa cgagcgacca 2040

```

gctacagcac accgcgagac cn

2062

<210> 822

<211> 2025

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2025)

<223> n = A,T,C or G

<400> 822

```

ncaagcagtc cagcctacgc aacagtactc cacctctgcg cctgtgcggg gagggtaagg 60
cggggccagc aacttcctca gctggaggga gagcgcacgg tggagccgcc agttgagaag 120
gactctgac cggctcagct ttccaatcag ctgcggaagg agccacgctt tcggggggttg 180
caagatggcg gccaccagtg gaactgatga gccggtttcc ggggagttgg tgtctgtggc 240
acatgcgctt tctctcccag cagagtcgta tggcaacgat cctgacattg agatggcttg 300
ggccatgaga gcaatgcagc atgctgaagt ctattacaag ctgatttcac cagttgaccc 360
acagttcctg aaactcacca aagtagatga ccaaatttac tctgagttcc ggaaaaattt 420
tgagaccctt aggatagatg tggttgaccc agaagaactc aagtcagaat cagccaaaga 480
gaagtggagg ccattctgct tgaagtttaa tgggattgtt gaagacttca actatggtac 540
tttgctgcga ctgattgtt ctcagggcta cactgaggaa aacaccatct ttgccccag 600
gatacaattc tttgcattgc caccattgctc ggaccgggca ggctatcaca agctgcatat 660
cagtgtcagg cacaagcacg gagcggacca gacgtccact acgacgggag aacaacaggc 720
gctgacgtgc ggcagcacg gacaacccca cgatggcggc cgcacaccag ggctgatact 780
ggcacacaca aaagacggac cgcattccac ccacagccac cgacacgggg gcccaaggga 840
cactgcacgc tcagctcggg acaccagcag ccagaacaac aacagcacca cgacaaccgg 900
gatcacctga agatacaaca acaaacgaat cagcaattta cattcggcgc gtatcttttt 960
cataacatct agacgcccac caaacaacaa aacgaaatac aagaaaaaga acaacaaaac 1020
acaacaaacg ataataacaa acaaacatac gaaaaaaaaa gaaagaagaa caacagagac 1080
agaacaaaaa aacaacaaa acaacaaaaa cagacgaaaag aacaacagaa gacaagaaca 1140
aagaatataa gaaaacaaac agtaagcaaa cacaacaaat caactcacac aaaacgacgc 1200
taaacaacac ggcacacgca aaagcgcaga agaagcacgt acaacagaca acccaggaga 1260
agacgcagaa cacacacgac agcgcacaaa gaacaagcag aagaggccac gaccagggac 1320
agacgagaca aagcgcaccc cgcgacgaga cacagcgcaa gacacgcacc aagacagtgg 1380
aacgaagaag cgacacgcca ggacagcggg cagtgactca agcgtcgacg cgcccggaga 1440
gacacgagac gaacagacac gaagcagcgg aacaacacaa cacagagagc acggcaagct 1500
gacacagagg gcgaggcacg cgccgcccgc cgcaggagcg agaagacaca acaagaaaaa 1560
gaaagcaaac aacgcaaac caacaccaga acgccaacc agacgagcaa aaaagcgaga 1620
aagaaagaag agagagaaca aagagcgaac agagacaaga gccacagaaa gaagaaacaa 1680
gagaagagaa caacaaacac aagacaggca gaacaagaca acaacaaaca agacacgagg 1740
aaagacacag aacagaacag aacaacagca agaacacgcc gagaaacaag caccacaaca 1800
gagacacaaa acgtaaagaa ggcacagcaa ggagaaacag acaaccacac gcggacgaca 1860
aagcacagag aagaaacaag cagagaaaaga gaacgcacgg agagagacac acgacacgta 1920
cccaagagag aacgcagacg gcaaagagcc gcaacgcacg aacacaagaa agcgacggaa 1980
agaaaacaca ggacacagca acaccgcacc gcaaccacac agcan 2025

```

<210> 823

<211> 2402

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2402)

<223> n = A,T,C or G

<400> 823

```

nnacgcgtcc ggcagcctc ggcgtttccg ccatgcgcct gcagtgcctc gcgcgctctt 60
gacgtccgga gcccctggag taggcgcttc cggccattca tactgcagtc ggtcagtggt 120

```

```

cggttgaagg attctgtgtg ctgtcggacc cagaggggtga cggcgccgct aggatgaagc 180
tcgtgagatt tttgatgaaa ttgagtcatt aaactgtaac cattgaattg aagaacggaa 240
cacagggtcca tggaacaatc acagggtgtg atgtcagcat gaatacacat cttaaagctg 300
tgaaaatgac cctgaagaac agagaacctg tacagctgga aacgctgagt attcgaggaa 360
ataacattcg gtattttatt ctaccagaca gtttacctct ggatacacta cttgtggatg 420
ttgaacctaa ggtgaaatct aagaaaaggg aagctgttgc aggaagaggc agaggaagag 480
gaagaggaag aggacgtggc cgtggcagag gaagaggggg tcctaggcga taatgtctct 540
caagatttca aagtcatatg agatttgga tattttttgt acaggttgtg tttgtttatg 600
tcagttttta ataaacataa atgtgggaca gagctgtcta tttagtatat caaagtttta 660
gtagtttctt ccacattcac gaaattacca cagtgaagac taagcatttc tactgggcag 720
tttcattttt agttgatcag gttttaagtt tttgaactaa aatttttctt tttcttttta 780
tgatgaataa ggttaaaata aaagccttag acaaattaaa tttggcagag ttttaattgag 840
caaaggacaa ttcacaaatc aggtagcccc tgaaccataa taggctcaga ggcttcagcc 900
cagctgcata gttgaagatt tatggacaga aggaaagtga tgtatggaaa atggaagtga 960
gatacagcaa cagccggatt agttacagtt cagcgtttgc cttatttgaa tatggtttga 1020
acagttcgct gtcttttggt ggctgaaact tagtgattgc cacaagagta gggtagcgtc 1080
tgtttacacg tccagttagg ctacagttct atgtactgag aaacctttaa gctgaacttg 1140
agatatgtaa agagacttta ggctaaactt aacaatata ataggatata tacccttcta 1200
cttcacatgc actgaatatg cttttatttg ctttactctt cattctgtgg cacctacca 1260
caggggaagt aagaagtttg ttttggtatt toggaaacta aagtccttat gggatgggg 1320
ctagaattga ttctcctttc ctgagtttta ctccacggag tcttaggtac ctggtaaaaa 1380
gttgctctct aaattaaggg tcattgcttt gttgtctagc tgctaattgc ttacttttgt 1440
ttcttttgct ttttaacag ttcttaatag gatatagttt tatgttttcc aagttataac 1500
ttggagttaa tggctactag attatcagtt atgagcagtg ttaaaatctc ctattaatgt 1560
gtaatgtacc tgtcagtgcc tcctttatta aggggttctt tgagaataaa agagaaaaga 1620
cctactttat ttgacagcaa aactgttcta attgttaata aggactttta aaaattgttt 1680
ttgatttgct aagctcagaa aaaatgtctc tcagtgcatc agttctttgt aaagcttact 1740
acgaagtatt tatatgctaa ggaaaacaac tgaggatgtg ggtggcttaa atctgtattt 1800
tcacatgtga tgtgagtttt ttttttttta agtaaaagaaa ttttctgcaa agatcgttac 1860
cttaaaaaag tttagcctgg gcgtgagcca ccgctccgg ccgaacatta gtttttaaa 1920
aaatgtatta tgaatataga tagaaaacc aaagtgaagg aatagaaaat gaaatatcag 1980
tttcttttaa tctatcataa ttatgtgagc ataacttagt attttgaaat agattaatgt 2040
agtcagcaaa caattcatgt attacctata atagatatca tacatataac atttaataac 2100
atacagttct tgttcctgaa gacttaacct agaaaataac tccataacaa gaagaatctc 2160
tgtcataata aaccaacagc agacattttc taaaggcatt aaaagtatat ctgatactgg 2220
cctttattaa tgtgaaattc ttgtggatct gtgaaataaa gaggagtact ttcttttcgt 2280
tttaaaaaaa aaaaaaaaaa aaaaaaaaaa tgcggccgca attcgagctc acttggccaa 2340
ttcgccctat agtgagtcgt attacaattc actggccgct gttttacaac gtcgtgacnn 2400
nn 2402

```

<210> 824

<211> 2527

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2527)

<223> n = A,T,C or G

<400> 824

```

nnncgtccgc ggacgcgtgg gtaaattgtt attgatatta tctttaaggt tgagccagtg 60
tgttactctc ttatcagcta cacagatcat gaaaaaaatt ccccgccact aaaaatttta 120
caattttata aatagtgggt agggatggga gtgtggggga taagaanaaa gtngacaaga 180
gattatgtac gattgagtg gataaatata atgaaacaat gaaaaataaa gtgtctttaa 240
agtttagaga aggaaagtat agtgttaaag gggttcgggg gagatttcat taatggaacg 300
gcacagggaa acggctttca aggagaagaa atatttcaca caatgaggag acacaaaggg 360
ccaacacatt cagcatatga cactatatta atggagggtc agcatgtgtg tgaaatgtgg 420
agttcaggtt agtgaagggc tggatctttg taggcagaga tgaggatca cagcaattct 480
ttgaaagagt aatgatatga tcaaagttaa ttaaagttat gatcttcaga aaaattaatc 540
tggcactgtg tacagaatag attggaatca aaaggaaact ggaggtggga acaccagttg 600

```



```

ggagaatgca atgatagcag tatttgttga gcactaagta tgtgatagat ttatcttaat 660
ctatgtcctt ataacatgcc tatgaaatgg gtactatcat tactgcattt tacaagttag 720
gaaacaaaga aaacagagta aacatctgcc aacgtttatt gacagtgcgt agcagtgcag 780
gataaatatt tcgaacctag gcagtttgat tctagaggta aaatagtcta aacaagaatt 840
aaacgttaaa ctggtctaat aaaatctact tatccacaga atgtttttta aaagaagcag 900
gagatatatg gactgcagga taggtgtgat aaaaattttg tttctaaatc atttagaatc 960
cactgcattg attccaaatt acaattatca gtgacattag aacttgatat gtgaagttct 1020
tcaagagtac tttgtgagac cagatctcca tttttttcca atgggaaatt attgcaagtt 1080
cctacattct gataattgct tcataattta tactaacata aaataatatt tttcactggt 1140
ttgcaatgtc tttttaattt ctgtattgca gctagaggaa gtccaaagaa aacttgatt 1200
tgctctttct gacatctcgg tggtagcaa ttattcctct gaggggagc tggaccctgt 1260
aaaggatgtt ctaattcttt ctgctctgag acgaatgcta tgggctgcag atgacttctt 1320
agaggatttg ccttttgagc aaataggtag atggtttggt ggtgtggaag ctggaagcg 1380
gtcaggtagt tggctacttt ctgcttggtat ctattaaata cctggcagct ctctgtcttt 1440
ttgtgggttg ttgccctgtg attagtcttg ctttttaacc cactccctgg atgcattttt 1500
ccctccttgc atttccctct tttcctggag ttcatactag agaactctga ctatgttttt 1560
ccctttttgt cttgagatga aagtttttaa ataattccac tctgtcattt ccactctctg 1620
aacatcccaa gctgtatccc tggcctcttt tctcagacta tgtttcttta ctggggacct 1680
agaactggat tggattagca ttgctcctga tcagatgaga cctttgatta ttgcccctt 1740
ccttaggacc ttacactcct gtctttcttt gacttgcctt tttgtttctt tccttcactt 1800
tagtccctct tcatgcagta tggctattgc taggtagagg tatgtccttt tatgtaatgg 1860
ccaccgcatt tagtattaca taaactttct ttttaacaatc tgtgcatagt acatgctgct 1920
ctgttccatt tagagatttg acagagggtt cagtttagta tactcaaatc ttattttagt 1980
gcttgggaaa tcaattcaga atatcacatc ctctccaatt ctctcttact caaattgctg 2040
ggaaactctc atgttactaa ctttgttgct ctaactctgc catcttggtt tccccatccc 2100
ttctcttctc catggtacgt gtgctcctaa tattagcgtt ggttgagatt ttcagtggtc 2160
caatattcct cttccctctg gttgcctttc ctgagataat ccactaagaa tattttgtgt 2220
ttcttttctc agggaaatcta agggaggaaa ttatcaactg tgcacaagga aaaaaataga 2280
tatgtgaaag gttcacgtaa atttcctcac atcacagaag attaaaattc agaaaggaga 2340
aaacacagac caagagagaa gtatctaaga cccaaaggga tgtgttttat taatggctta 2400
ggatgaagaa atgcatagga acattgtagg tactgttaaa tacctagaaa tacctggatt 2460
tgggccataa tgtgaaaaaa aaaantcctn gattangtcg gaccggggaa aataatccnn 2520
nnnnnnn 2527

```

<210> 825

<211> 1368

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1368)

<223> n = A,T,C or G

<400> 825

```

nnnnacgcgg ggggcgcctgc gcacctcctt gccccccctt tcggattccc gacgctgtgg 60
ttgctgtaag gggctcctccc tgccgcacac ggccgtcgcc atggtgaagc tgagcaaaga 120
ggccaagcag agactacagc agctcttcaa ggggagccag tttgccattc gctggggctt 180
tatccctctt gtgatttacc tgggatttaa gaggggtgca gatcccgaa tgcctgaacc 240
aactgttttg agcctacttt ggggataaag gattatttg tcttctggat ttggaggcaa 300
tcagcggaca gcatggaaga tgtgtgctct ggctcggata agagatggga catcattcag 360
tcaactgttg gatggcacia ggctcttcac agacgcactc gtagcagagt ggaacttgta 420
ctaacttatg atagaatgta tcagaataaa tgtttttaac agtgtaaaaa aaaaaaataa 480
aaaaaaagaa acgaatacac ccggggcctc catgtgccgg ggtcgcggac acacagggga 540
accgacaacg cgggccacca gggtaaacaa cagacggaaa aacatgacac aacggtttac 600
gagataagaa aggagggaaa acacagtgcg gagagaccac acataatggg acagcacaca 660
atacacatca caaaagcgcc ccgggattaa acccgtgcc caattaagag taaaaacgag 720
ccggcacaaac gccgagcgag aacaaaaacg acaacgcgcg acacaaacac aaagcgaaga 780
aagacatgac gaagcaccat cgacacgcaa acacaccaca agcaatactg aaaaacacca 840
cacacaagag tacactgcga caccacgcca cctgacacaa ggccgagaga taagagaacg 900
atgggggtgga agtagagcgg acgagaggct gtggaaaaac gactagaaag tgaatcgaac 960

```

```

agaaggaaga ctagagaaag atgCGtatcg gctgaaaaga taagctgatg aggaagaaag 1020
caccgagaga gcgacggagg aggaagcgctc gactgcggag gcgagaggaa gaggaagaa 1080
taggaccagt gccgagggtat agggaggagg gcataactaat aacaaaacat actataatcc 1140
aaacacaaca catacactac attaaccaca cttactacat aaccaatata catcaacaaa 1200
caatcaagag agaataaaaa taaaataacta acaaaattaa aaacaaagca aaacaataaa 1260
agcctacaat ctaacacaca agagaaacat aaccactaaa tcactacaaa cacacacaga 1320
ataacatcaa actacataaa aatcaataat atcaatacac tataagan 1368

```

<210> 826

<211> 422

<212> DNA

<213> Homo sapiens

<400> 826

```

gcgtccgatt tatcatcatg tactctctga catatcagga aagggtgttg ttgacatcag 60
ctccaggcct agcatagtc tttatggggg actgggcagc gtgcagacat caacatttgg 120
aaagcatttt cttctgctag caacagcttt gcctgtcagc atccaagggt tatctttcca 180
gttcagcagt gcaactctat ggagtagaat tgaaaggaga cttttcgcca attgcaggaa 240
atggtcataa aaaaatacct gctcactgac agaataaagg taccttttaa cttagtcaaa 300
tctcttttgc attgttttcc aatctgttct tgggtgccat tgtatagaaa cagattgaa 360
actcttaaat attttaaaac attaatagag atgaattggt ggaattatat cctattcaca 420
ta 422

```

<210> 827

<211> 1245

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1245)

<223> n = A,T,C or G

<400> 827

```

nnnnnnnnnc gtgccccagc cggaccgacc cagcccttag agccaatcct tatcccgaag 60
ttacggatcc ggcttgccga cttcccttac ctacattgtt ccaacatgcc agaggctgtt 120
caccttgag acctgtctgc ggtacgcgtg cggcccgcg cgttcgcca cgtgaagaac 180
gccagggagc tgtgaggcag tgctgtgttg ttccctgccg ccggaactctt tttcctctac 240
tgagattcat ctgtgtgaaa tatgagttgg cgaggaagat cgacctattg gcctagacca 300
agacgctacg tagagcctcc tgaaatgatt gggcctatgc ggcccgagca gttcagtgat 360
gaagtgaac cagcaacacc tgaagaagg gaaccagcaa ctcaacgtca ggatcctgca 420
gctgtcagc agggagagga tgaggagca tctgcaggtc aaggggccgaa gcctgaagct 480
catagccagg aacagggtca cccacagact ggggtgtgagt gtgaagatgg tcctgatggg 540
caggagatgg acccgccaaa tccagaggag gtgaaaacgc ctgaagaagg tgaaaagcaa 600
tcacagtgtt aaaagaaggc acgttgaaat gatgcaggct gctcctatgt tggaaatttg 660
ttcattaaaa ttctcccaat aaagctttac agccttctgc aaaaaaaaaa aaaagacagc 720
agaacacagc tgtcgcacac agagcgcggt agcccaaccg agccaccacc agcgggcaca 780
caggaacaaa cagagagggg cgaagaaaac acaagcaggg aagcaaaagc ccacgggggc 840
gacacacgac agagacctgc caaacacaca cccagcaggg cgaccogaga gcgcgcaaaa 900
ccgggcgcg acaacaaga gaggacttcc aaacgcaaca cgcagaacta acaatatcaa 960
gccaggaag caagcgggac gaggggaagaa gagagagaaa gcggaaggag gacgcacggg 1020
cgacggagca cagacgcgca cgaaggagac aacgggagag cacgagagcg aggggaaaga 1080
ggcaggacgg agcacaggag gagaaggaca gagaaggaaa gccaggagca gagagaggcg 1140
cgagagcgcg agggcgaggg aagcgagcaa cgggacacag agaggagaag gaggaggagc 1200
agggatgaca tgcgcagaca gccgaagacc gggagcaacc cannn 1245

```

<210> 828

<211> 864

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(864)
 <223> n = A,T,C or G

<400> 828
 tcgacccacg cgtccggaac gtctaaccctt tcgtccttaa atattgccga tacttgacct 60
 acgcaagaga caatgtcatg tgattcagcc taatatctca gaggatgcag cattcaaggt 120
 tctatcttgg aagcagagac tgtgccctca ccagatgctg aacctgctga gcacctgat 180
 cttccacttc accttcatca gaactactgg ggctgtggct gagatgtcac atggcagata 240
 ggatcacaaa tttctgttgt atctggatgg agatcagcag gaggatctat gggtagaag 300
 aagcacagtt acagatggat tctagagcct gcttgctgac acaggcttgc aactgcggac 360
 ttataaagct tagtttttaa tctgctatca gctagcataa taccataaat gcataaaaaa 420
 ctaagtattc agtcttacga gaaatgctat cttgacctga ccttttctcc aaataaattg 480
 acaaaatata tcatacgtcta ggatgccaga cagaaatacc agttgcaatg ttttgttgca 540
 taaagtttat cctaatttaa attagtggca tataaagtca tcatcttgct tgaacaaaca 600
 tcttattaaa ttgagcatgt cttttatccc atgaaatgaa attaatTTTg agatagttat 660
 ttttcagttg gaaatttatt gagttgatag aaaacaagtt atatagtctt ccaaagaata 720
 tgttacatcc atttgcattt tgTTTTTctt cagcaatggt tggttttttag aaaatcttac 780
 aagttaaata tactaatgta gaaattgaaa gaaaataatc agagatagag caataaattt 840
 gcaaataaag annnnnnnnn nnnn 864

<210> 829
 <211> 3507
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(3507)
 <223> n = A,T,C or G

<400> 829
 nnnnnaagat actttatTTT ataatacaaaa tacgcaatac aaacaaatgg acataacaaa 60
 gattcatata aataactggT tataaacttt atgaggaaaa ataccctgca gcatggtggc 120
 tgacttgtac tgggtactct gaactttcaa ggaggccaga gcaggaaagg gaaaggaata 180
 acccccacca cccccaacac aagagaggca caaattagag ggctgggcac aggctgtagc 240
 cctgggtgag ggggtaagca gcttgacagt tgctctgtgg tctctgggat ataattctgc 300
 ccaaggctag aaccacagag aagagtttgc actcttaagt ccaggaaggg gactacctgg 360
 aaggcctgag aacaaaggag aaagttagc aactaaaca catggccagg accctaggga 420
 cacaaggcag ctggagagtG ggatctcttg ttaaatggca tggtaggcag attagagtcc 480
 tggctataat ccctagggcc ccaatcctag tagttacgtg ctaaccaaca cattacctg 540
 aggcttctgg gagaacaaga gccctgagga agaagcagta agaccaggca tgagaaaacc 600
 cagaaagcca gctcagttcc caagaaggct ggacatggg gcctgagaat tcttaaatgg 660
 ccattgtcac tggtaacttg tcagcctttc caggccctc tgatgagctc tctaatacag 720
 aggaccaagg tgtgaagtgg gaatgaacat ggatccatcc cattggatgg agaagaaagg 780
 tggacagcct gttcgtctct catgtcagcc tagggctggg aacagtttgt gaggacttat 840
 ctgttgtacc tgccaaaagt taattagtaa ctcaccgtcg agagtgaatt aacaggacaa 900
 acgtaatcca acatgccagt gtgggtagga cacagttccc taatcagccc ttggcccca 960
 gatgcaggct ctcctctccc ctctgagacc tctctgggaa tagcagacaa gagaatgtca 1020
 gggcagaaac ctgctggact aggctctcag cagcccagct cctccctggg ggaatcccc 1080
 agaattctc actgtgtgac acagttttc cccatgtct gggcatatct gtctgacatg 1140
 gtggtcctta agtctcaat gtacgcagcg agctgttgaa cctcttctag tttcctcttg 1200
 atcacatctg gcttctgcaa atctagctga gtctctgggt gctgtgagtg aatgccagg 1260
 agcagggaga gattggggtc atggccctgg gccctctggg tcacaatgct acagacagcc 1320
 tgcagatctt gaaggcaact ggccaactcc tggtagcagct caagtgccag ctgggcccgtg 1380
 tctggtgaag gtggagaccc tgggtgggccc tggcgcagggt gttcctggag tgtcagattc 1440
 ttctcaatca agtccctggtt ttgactgaa agctccttca cggtgtgctg cagctgctgc 1500
 agggctgaat cccttcgctg ggccctctct ctcagggcct ggcttgttcc ttcttcttga 1560
 gccacttcc tctctaggct ctgtacttgt gagcgcaact gatccatctt ctgctgctgc 1620
 ttctccacaa tcttttggag cgaatcgat cgcttctgcc aggactccat ttccacttct 1680

```

ggaccttctc cactgggtctc ctccacagac tgtttatctt gcaggctatg tccagcggag 1740
gagaattctg cttctctctg cctcaggctt tccagttgaa tctccttctc tctgcagatt 1800
gcctgggtct cctccagcaa actctccagc tcagtcactt tctcctgcag ctctgtgctc 1860
ttcaactcag aatccttaag ctgctggctc tgcttctgat ggtcttccag tgtgggcagg 1920
tcagccagggt agcgtctcaa ggtctcaata cgctgctgct tctcccggtt ctgctctgat 1980
tccttctggc atttcttttt caaattattg atatgtttat cacgaccttt gaccttttct 2040
tcctgtttct tcaacttctc agaatgcttc tgcaacgcca ctttgagcga ctctctgatg 2100
agctggactt caacttcaga agcagagagt ttcttttcaa ggtcaatctt ttctctgctc 2160
aaggcttctg tcttctgtgc aaactgtgca cgtaagaaag tgttttctcg ctgcaattcc 2220
tgtagcctca gcaagcagac atcaccaaag ggggcagggc ggcccaagag ggcactgtgg 2280
acttgagtt cgctctctcg cactttctgc tccagctgag agatgtgttt cctctgcttg 2340
tcaatgagaa gctctttttc cttcagaagg tgttcattac tgttcaagat gctgatccac 2400
tgtgctggct ctaagatggg cagtgaagga ccaaaagcag caggatgggt gcagatggct 2460
ccattctgaa gctgcatttg ctccatctgt aaacgaatca attccagctg ctgccgacaa 2520
gtgctgagtt cacaagattg ctctcgggga tgccaagtgt caggactcgg ctgccacacc 2580
tgagagggca gaggcttgga gagcccgga gcaggctgga gtcccaaagg gaggaccca 2640
ctgctattag aatgtgggtc attccgctca aacactgcc cgctgccgg tgcttcttg 2700
gcctcaggca acactctgta caactcctta cttgtgctgg ttcttgggtt gtggaagcgg 2760
actcgtgggt gaggatctga ataaagtgtc tccatcattg ccgactgatt gagggtagat 2820
tccatgctag gaatatcaaa ctctctgcc tcttcttgct ttcatggcc cactgctgga 2880
aaccaggact gctcaattcc attttctcca gtagcaccag agaaatacat gagatctcta 2940
gataggcctg gagaatgttt cattgcaccg aggtctccat ttcttgtcat tcccacactt 3000
tcagccaacc ctgacaaaag gagtttagag gaagagggtc caacagggtg agaatttggc 3060
ttggcaggag aggtccctaa agtagaaggc atcacatggg ctggttggat ggttacgtgg 3120
cttttgatgg gctggaaagg aggactgcca cttgagctgc aaaaatctc cgcaatatct 3180
gagcatgatg taccaatggc tgtgtcccca ctgtcggcta cacttgaaca gcggtgaag 3240
cggctccgaa agggctccga gataactgg gtctgccatt cagtccccag ggaaactgcc 3300
ttctgaatca catcggaact cgggtgaagt acgtgagaga tccccctcag ttgatatttc 3360
tcctgcatgg ccacatca cagttattta agccaaacgg gcctgaaagc gggcggcgaa 3420
atccctcact cgggaagact gactgcagcc actacgtctg cgggtgagcg tggttccctc 3480
cctcagctcc tctaacggcc gttgcan 3507

```

<210> 830

<211> 864

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(864)

<223> n = A,T,C or G

<400> 830

```

tcgaccacag cgtccggaac gtctaaccct tcgtccttaa atattgccga tacttgacct 60
acgcaagaga caatgtcatg tgattcagcc taatatctca gaggatgcag cattcaaggt 120
tctatcttgg aagcagagac tgtgccctca ccagatgctg aacctgctga gcacctgat 180
cttcacttcc accttcatca gaactactgg ggctgtggct gagatgtcac atggcagata 240
ggatcacaaa tttctgttgt atctggatgg agatcagcag gaggatctat ggtgagaag 300
aagcacagtt acagatggat tctagagcct gcttgctgac acaggcttgc aactgaggac 360
tttataagct tagtttttaa tctgctatca gctagcataa taccataaat gcataaaaaa 420
ctaagtattc agtcttacga gaaatgctat cttgacctga ccctttctcc aaataaattg 480
acaaaatata tcatcgtcta ggaatgccga cagaaatacc agttgcaatg tttgttgca 540
taaagtttat cctaatttaa attagtggca tataaagtca tcatcttgct tgaacaaaca 600
tcttattaaa ttgagcatgt cttttatccc atgaaatgaa attaattttg agatagttat 660
ttttcagttg gaaatttatt gagttgatag aaaacaagtt atatagtctt ccaaagaata 720
tgttacatcc atttgcattt tgtttttctt cagcaatgtt tggtttttag aaaaatttac 780
aagttaaata tactaatgta gaaattgaaa gaaaataatc agagatagag caataaattt 840
gcaataaaag annnnnnnnn nnnn 864

```

<210> 831

<211> 1089

<212> DNA
 <213> Homo sapiens.

<220>
 <221> misc_feature
 <222> (1)...(1089)
 <223> n = A,T,C or G

<400> 831
 cgcgtccgcc cacgcgtccg ccaggctgtt catgtgtctg gtcccatttt cgtactgaag 60
 tggaatccta gaaactacag tagtgggaca cataacatag aagtaatcgt ccaggattct 120
 gctggaagaa gtaagagtgt tcaccacata ttttctgttc aagagaataa tcatctcagt 180
 tttgatcccc tggcatcatt tattctccgt actgatcact acatcatggc ccgggtcctt 240
 tttgtgtgta ttgtgtgtag ccagctcacc attctcatta tttttagata tcgaggatac 300
 ccagagctta aagaaccttc agggtttata aatctgacct cttttctctt tcatgtcttg 360
 agcaaaataa acatcttcta ctattctgtg ttgttgttga ccctgtatac agtgctgggt 420
 ccatggtttt ttggtgaaat cattgatggc aaatttggtt gctgcttttc ctttgggata 480
 tttgttaatg gacatttcct acaaggcagc ataacattta taattggaat tctccagctg 540
 gcgtttttta acatcccctt gatggcttac atgtgttggg gcttgctgca gcggtgcttt 600
 ggtcacaaact tcaggctctca tctccatcaa agaaaatact tgaaaattat gcctgttcac 660
 ctacttatgc tactgctgta catctggcag gtttattcct gctactttct ttatgcaaca 720
 tacggcacc ctagctttttt attctccctt ttgaggacct gggtgacact gctgacacct 780
 gttctcattc gttatgtgtg gacactgaac tccaccaagt ttggaatcct catggtgcag 840
 ttaaaaagcc acctgagctc ctgaaggcca tgtctacca ctggcagctg gccagaagcc 900
 cagcctctgt gtctttagtc ccaggcctct accccagtag cagggtggagg gccaggattg 960
 gtgggtgagc tttaggagag agctgctcgt ttggagtcct ggacgttggg gggattaccc 1020
 actactgata cctgcagaat ggactgcaga aaagtctcaa aaataatgcc tttattcctt 1080
 cccnnnnnn 1089

<210> 832
 <211> 1250
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1250)
 <223> n = A,T,C or G

<400> 832
 nncggtaccc ccctgtgctc agggctttct ttgtatgcat gatctcagtg aatctcacca 60
 agcctcatct ggaaaacggg gacaaattaa caacaggatg gcaaattgaa agacacgtaa 120
 ccattgtcta cagatggaaa ggggtgcttg gttattatga aggccccctc gcaagcgtgt 180
 gggacatggg tgtgttctct gggttgtact gatcagatca aggacctccc ccaccttct 240
 cacactctgc ccacttccgc cctttgctta tcagaccctt agccagtgac tcattccaga 300
 accagaacct tgggtgaaatc tcaaccgaca ccagagatcg gtgtcttcag tcctagactg 360
 atggagaaaa tccagaatat atactagaag ctccaaatgc tctgggtttc agctcctctg 420
 tgctgtggac actgactttg gctcagaact ccgatttagt acaaaaggct cttttttatt 480
 tcaggggcac tcttcctaaa gcaaacctaa taaatgaaat atggaattca cagatacaca 540
 cacacattaa aaaattaacc tagtgtatct gtgaggagta ggcagaaatt ccctgtataa 600
 aagaatgctt ctttcatag agaatttggt ttaagattcc attagatagt acatttctca 660
 aagatttttg aggttgattt tgctttacca aaacttggtt tatgtaagtg gaaaaagcat 720
 gttgcaaaat aacttggtgt ctatgattca gtttatgtaa aataataaat gtatgtagga 780
 atacgtgtgt tgaaagatgt acatcaattt gctaacaatg gttatctctg acgtgggtgg 840
 atttgagatg tgtttttctt tttggttgta tttttctcta ttgtttgact taacacagaa 900
 catgtttggt tacaacaata aagttattga agacaatata acacccaatt gtgatgagtc 960
 cagacagtac tcatgctgtg cttttattag acagtatgcc atagagggtg gtcattggagg 1020
 agtgagagga gagccctgat ttgttgctcc atgaagaaga taggcacagg gtaatatgta 1080
 gtgtgattct tttttttttt tgacagagga gaagtgtgtg tgtatccgtg taagtgtatg 1140
 gatattccagt gggtagtggg tgtaagatt gcaagtgatt tttttccct ctcccttaat 1200
 catgcttttc tgcctaaata aaaaaagaac tctcnnnnnn nnnnnnnnnn 1250

<210> 833
 <211> 1960
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1960)
 <223> n = A,T,C or G

<400> 833
 nncgaacncc cataggtagg gacgcgcgcc attgtgttgg taccgcgcgg ctgcgccgcg 60
 tcagtcaccc gcagcaggcg tgcagtttcc cggctctccg cgcggccggg gaaggtcagc 120
 gccgtaatgg cgttcttggc gtcgggaccc tacctgaccc atcagcaaaa ggtgttgccg 180
 ctttataagc gggcgctacg ccacctcgag tcgtgtgtcg tccagagaga caaataccga 240
 tactttgctt gtttgatgag agcccggttt gaagaacata agaataaaaa ggatatggcg 300
 aaggccaccc agctgctgaa ggaggccgag gaagaattct ggtaccgtca gcattccacag 360
 ccatacatct tccctgactc tcctgggggc acctcctatg agagatacga ttgctacaag 420
 gtcccagaat ggtgcttaga tgactggcat ccttctgaga aggcaatgta tcctgattac 480
 tttgccaaga gagaacagtg gaagaaactg cggagggaaa gctgggaacg agaggttaag 540
 cagctgcagg aggaacgcgc acctggtggt cctttaactg aagctttgcc cctgcccga 600
 aaggaagggtg atttgcgcc actgtgtgtg taattgttga ccagaccgg ggagcggccc 660
 atgtagaaag agagagacct catctttcat gcttgcaagt gaaatatgtt acagaacatg 720
 cacttgccct aataaaaaat cagtgaatg gcaacaaaaa cacaaaacag agaccaacag 780
 gcagcgaccg cacaacaaca caaacgagca cggaggggcg cgtgaaacg gcagagacac 840
 cgccaacaaa tacatataag cggacgcaaa gaaagaaaca aaccggcaga gacaagggaa 900
 gatacatact agagtaagtt acgcgacgc aggtctttct tgtgtctttc gtttttatct 960
 cgaggtggca aaacaagacg atgagagaag aacgaaacag cagaagagag agcagaaaga 1020
 agaaaaagca aaagagaaga agacaaaaca caagagaaaa gcaaaaacag agggaaacga 1080
 agaaggcagc aagagacagt gaggcacgag agagcgacga aagggagaag aaagaagcag 1140
 gaaagcgaga agggggcaga gaagagagag gagcagagca ggagacggaa cgcgagaagg 1200
 aagcgagccg acagcagaag acagaaagag gaggacgcga gaaagcgaa agcacgagag 1260
 aggacagaga aagaaagcag ccgagagaga gaagacgaga gacaggaagg aagagagggg 1320
 gaagaagggg aagacaacaa ggggagagcg agagaagagc aaggaaaaga agagaagcag 1380
 aggacggccg gagaggcgag gaggggcggg agagagggga gggagagaag agcggagcag 1440
 aaggagcgag acggggaggg ggggagcgga agagagaggg aggacgaaag cgaagccgaa 1500
 ggagacgagc agagaaggga gagagagggg cgagagagag aagaggacag ggatgaacgg 1560
 agcaggaag agcggcgagg agagcaaaag aggagacggg gggtcgagga ggagagaggg 1620
 agggcgaggg cgaaggcgga ggaggagcg aaaggagag gagagggaa aggcacgaga 1680
 gaagcgaaag gagcgagga cgagaagaac agcgaacaaa gaagcaacga gcgcaggaga 1740
 gcgaggcgca gagcaagaga aaacagaggg aggcagcgaa cagaagaaga cacgagggga 1800
 ggaagagagc gaaggaggtg ggcggaggac gagcgagcga cgcaggggag agcagaagaa 1860
 aggaaagcgg aagaatgaac gcagagagag aaaggagaga gccggagagc agacgagagg 1920
 ggcgaagaag gacggagaaa ggcagaaggga gagagaagan 1960

<210> 834
 <211> 792
 <212> DNA
 <213> Homo sapiens

<400> 834
 acagggtctt tcatacata caaacctctc acagcccacg gctccaaccc acagcacctc 60
 ctgcagtcct tttatgcttc ttgtttcttc tccatcaata atatgtcagt caactgcttg 120
 tcagagacac ttagctgctg acaggtcctc ataactgac tcaggtaaac tgccaagaga 180
 tgcttgact gcactctca cgttagtcct aagttatatt tottcttgc cttcagaaag 240
 ctgtcacagc aatggttaac attccttgag gcactaggct gtgaagtgt tctcatagat 300
 tatctoactg aatctgaca gctcccagga tgctgtcact cttccgtagc actgagaatg 360
 caaatgcagg aatgaacag taatgacaag aagccaaaca tgtgtatgtt ttactggaac 420
 ttccaaggac ctgtaatccc aacactgtga gagggcaagg tgggaggacc gcttgaacct 480
 aggagtttga gaccagcctg ggcaacatag tgagaccccg tctctggtaa acacgccttc 540

```

cactgggtga tgagattaag gtgatggact gtcgatcaac taggtccaag gcctgggtgg 600
ctgatgagcc aagagaaact tcagcgataa cagatattca tcaggaattc gcgcgctctc 660
ctgcaccgcc gccgccatct cgctcaggag ctectccaca accgccggca aactacggc 720
catcgcgccg caggacacgc cctccacgac cggcggaccg ccgcgacgct ccagcggacg 780
cgtgggcgac tc 792

```

<210> 835

<211> 798

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(798)

<223> n = A,T,C or G

<400> 835

```

nnnccgaccac gcgtccgcgc tcaacgatcc ttcctcaaag catggttgct gagtaccag 60
agttgcgagg agttttttaa ctgatttagc cagggtggcaa tcatgagtga atggatgaag 120
aaaggcccct tagaatggca agattacatt tacaaagagg tccgagtga agccagtga 180
aagaatgagt ataaaggatg ggttttaact acagaccag tctctgcca tattgtcctt 240
gtgaacttcc ttgaagatgg cagcatgtct gtgaccggaa ttatgggaca tgctgtgcag 300
actgttgaaa ctatgaatga aggggaccat agagtgagg agaagctgat gcatttgctc 360
acgtctggag actgcaaagc atacagccca gaggatctgg aagagagaaa gaacagccta 420
aagaaatggc ttgagaagaa ccacatcccc atcactgaac agggagacgc tccaaggact 480
ctctgtgtgg ctggggtcct gactatagac ccaccatag gtccagaaaa ttgcagcagc 540
tctaatagaga ttattctgtc gcgtgttcag gatcttattg aaggacatct tacagcttcc 600
caatgagagg ccaggaagtg tgaacatact gatagaaaaa gactatattt tatccctcat 660
aaaatgtttt aaatgtacaa tgccttgac tgtgtgtgtc gtatgtgcgc gcggcaaac 720
ctgtcgttgg aaaccaggac ggtaaaggca attcctggga atttgactcg gattgtctcc 780
tgttaatcgg ctcanntnn

```

<210> 836

<211> 798

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(798)

<223> n = A,T,C or G

<400> 836

```

nnnccgaccac gcgtccgcgc tcaacgatcc ttcctcaaag catggttgct gagtaccag 60
agttgcgagg agttttttaa ctgatttagc cagggtggcaa tcatgagtga atggatgaag 120
aaaggcccct tagaatggca agattacatt tacaaagagg tccgagtga agccagtga 180
aagaatgagt ataaaggatg ggttttaact acagaccag tctctgcca tattgtcctt 240
gtgaacttcc ttgaagatgg cagcatgtct gtgaccggaa ttatgggaca tgctgtgcag 300
actgttgaaa ctatgaatga aggggaccat agagtgagg agaagctgat gcatttgctc 360
acgtctggag actgcaaagc atacagccca gaggatctgg aagagagaaa gaacagccta 420
aagaaatggc ttgagaagaa ccacatcccc atcactgaac agggagacgc tccaaggact 480
ctctgtgtgg ctggggtcct gactatagac ccaccatag gtccagaaaa ttgcagcagc 540
tctaatagaga ttattctgtc gcgtgttcag gatcttattg aaggacatct tacagcttcc 600
caatgagagg ccaggaagtg tgaacatact gatagaaaaa gactatattt tatccctcat 660
aaaatgtttt aaatgtacaa tgccttgac tgtgtgtgtc gtatgtgcgc gcggcaaac 720
ctgtcgttgg aaaccaggac ggtaaaggca attcctggga atttgactcg gattgtctcc 780
tgttaatcgg ctcanntnn

```

<210> 837

<211> 2702

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2702)

<223> n = A,T,C or G

<400> 837

```

nagtattaaa cattttcaaa gttacttgcc aacatctaga aagataccag gttttctata 60
aaaaagaaaa ctggatttct ggatgcttct taaaaatcag gaagtctggc agcctgagcc 120
cacatcggtt ggagctgagc cgcacctgcy agttgcatct gggatctcca gttcaccggc 180
ccctaagctc ctgagagggtt ggcctgaacc tgagggttgc tgtcaatcac catttcttcc 240
ctccactcct tgtgttacct gcctggctct gcgggggttg caacaactca ggagcccacc 300
tcgggtggtt ttggagggtc cgtgcacact gctgattggg aggctggacg ctgccagtct 360
gtccggagtt tcctttaccc ctgagtagcc ccagactga actggcagcg agtggaggcc 420
acgatgcatg gttctcttga agctttgtct tccttgcccc aagtcaccct gtcccttgcc 480
cacgcccatt tgatctgtct aaatgcacaa ctggagatgt gtgtctttcc ccacaggttt 540
cttggcgatc tcacaacaga aggaataaac aagccaggat tttacaaggg cccagccggc 600
tcccagggtg ccctgagcag cctggggaac cagacacgag tgctgctgga ggagcaggct 660
cggcacctgc tgaacgagca ggaacacgcc accatggcct actacctgga tgagtaccgt 720
ggcggcagcg tctctgtgga ggcctcgtc atggccctgt tcaagctgct caacaccac 780
gccaagaaca ctctggacct ggaggaaact ggcgaggctg tccagggcaa tatcaacgcc 840
ctccagatg tgcctgtgga tccacctccc aggggctgtc aagcttcaag 900
ccactgcctc gccaccacc tctggcccaa ggcaacgacc tccactagg ccagccaagg 960
aagctgggga gagaggacct ccagccacct tctccaacgc ctctctgtc gggcactgtc 1020
ttctcggctc cacagaaccg cagcccgcca gcgggacccg caccacccc agggacctcc 1080
tctgcacagg acttgccctc ttccccatc tatgcctccg tctccccctc caaccccagc 1140
tccaagaggc cgttgagcgc ccactctggc ctggtcaacc aacaccccat cggccccctc 1200
ccacgggttc agtcaacccc gcacctgaaa agcccctctg cagaggccac agtggctggg 1260
ggctgccttc tgccccatc accctctggc caccagacc agacaggcac aaaccagcc 1320
tttgtcatgg tggagggtcca ccgccccgac agcagaccag acgtcaatga agtgaggcg 1380
ctgccccaga cgcgcacagc ctctacgtct tcccagctct cggacagcgg gcagactcta 1440
agcagggaca gtggtgtgga tgctggcgag gcagaggcca gcgccccagg ccgagggaag 1500
cagtcggtgt ccaccaagag caggagtagc aaggagctgc ctcggaacga gaggcccaca 1560
gatggggcca acaaacggcc tggacttctg gagcccacgt ccactctggt ccgtgtgaag 1620
aaaagtgcgg ccacctggg catcgccatc gaggtgagg ccaacaccgc ccagcccctg 1680
cctaggattg tcaatttca gagaggcggc tcagctcaca actgtgggca gctcaagggt 1740
ggccacgtga ttctggaagt gaatgggctg acgcttcggg gcaaggagca ccgggaggcc 1800
gcccgcatta tcgccgaggc cttcaagact aaggaccgtg actacattga ctttctggtc 1860
actgagttca atgtgatgct ctgagggcca aggcctgagg gcctcccacc actgccagc 1920
ccctggctcc agtcccttcc caccgttggc ttcacaaagc tccttgccgg gttggggctg 1980
catggccagg gtggcaggaa gacatcccc ctccatccca gccactgga ccagaactgg 2040
gagagggaaga gagcaggaca aggcagacag aaggtcaggc caggaaactg tgctgtactg 2100
ggtacacagt aggcgcccag gacaagtggg ttgcaagaca ggaagaaagg aaaaggaaag 2160
gcagagtgtc ggtttctcca ggttgggttg ggggcaactg tgtccccct ccagctagga 2220
cccagcccat cccagatgc ctgagccttt gtccaaagtg aggtcactcg agaattcatg 2280
gacacggccc ccagtcaggg ggcattctgc aagaccttta gtgccacaaa taagcatcga 2340
gcacctcccc attcacacc ccattcctcc tggctcctta tccccatgg tgtttattat 2400
ttatttccct ccccatgccc ctggggaccc caaggcccca gcttccctct gcaccccag 2460
cctatcccag aggccttgca ggtgaccagc agtgtcattg tatttatata cagagcttat 2520
gactttaatt tttcaataaa gaaatctgaa caaggtttga aaaaaaaaaa aaaaaaaaaa 2580
ctcgaggggg ggcccgggac ccaatttccc tataggaggt cgattacaat tcaactggcg 2640
gcgttttaca acgtcgggac tgggaaaaac ctggggttac ccaactttaa tcgccttgca 2700
nn 2702

```

<210> 838

<211> 3507

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(3507)
 <223> n = A,T,C or G

<400> 838

```

nnnnnaagat actttatattt ataatacaaaa tacgcaatac aaacaaatgg acataacaaa 60
gattcatata aataactgggt tataaactttt atgaggaaaa ataccctgca gcatgggtggc 120
tgacttgtag tgggtactct gaactttcaa ggaggccaga gcaggaaagg gaaaggaata 180
acccccacca cccccaacac aagagaggca caaatagag ggctgggcac aggctgtagc 240
cctgggtgag ggggtaagca gcttgacagt tgctctgtgg tctctgggat ataattctgc 300
ccaaggctag aaccacagag aagagtttgc actcttaagt ccagggaagg gactacctgg 360
aaggcctgag aacaaaggag aaagttagc acactaaaca catggccagg accctaggga 420
cacaaggcag ctggagagtg ggtctcttg ttaaatggca tggtaggcag attagagtcc 480
tggctataat ccctagggcc ccaatcctag tagttacgtg ctaaccaaca cattaccctg 540
aggcttctgg gagaacaaga gccctgagga agaagcagta agaccaggca tgagaaaacc 600
cagaaagcca gctcagttcc caagaaggct ggcacatggg gcctgagaat tcttaaatgg 660
ccattgtcac tggtagttgc tcagcctttc caggcccttc tgatgagctc tctaatacgc 720
aggaccaagg tgtgaagtgg gaatgaacat ggatccatcc cattggatgg agaagaaagg 780
tggacagcct gtctgtctct catgtcagcc tagggctggg aacagtttgt gaggacttat 840
ctgttgtagc tgccaaaagt taattagtaa ctaccctgc agagtgaatt aacaggacaa 900
acgtaatcca acatgccagt gtgggtagga cacagttccc taatcagccc ttggccccc 960
gatcaggctc ctccctccc ctctgagacc tctctgggaa tagcagacaa gagaatgtca 1020
gggcagaaac ctgctggact aggtctctcag cagcccagct cctccctggg ggaatcccc 1080
agaattctct actgtgtgac acagttttct cccatgtcct gggcatatct gtctgacatg 1140
gtggctcctta agtctcctca; gtcacgacgc agctgttgaa cctcttctag tttcctcttg 1200
atcacatctg gcttctgcaa atctagctga gtctctgggt gctgtgagtg aatgccagg 1260
agcagggaga gattgggggtc atggccctgg gccctctggg tcacaatgct acagacagcc 1320
tgcagatctt gaaggcaact ggccaactcc tgggtcagct caagtgccag ctgggcccgtg 1380
tctggtgaag ctggagaccc tgggtggggt tggcgagggt gttcctggag tgtcagaattc 1440
ttctcaatca agtctgtgtt ttgcactgaa agtctcttca cggctgtgctg cagctgctgc 1500
agggtgaat cctctcgtct ggcctcctct ctacaggcct ggcttgttcc ttcttcttga 1560
gccacttcct gctctaggct ctgtacttgt gagcgcaact gatccatctt ctgctgctgc 1620
ttctccacaa tcttttggag cgaatcgtat cgcttctgcc aggaactccat ttccacttct 1680
ggaccttctc cactggtctc ctccacagac tgtttatctt gcaggctatg tccagcggag 1740
gagaattctg cttctctctg cctcaggctt tcagttgaa tctccttctc tctgcagatt 1800
gcctgggtct cctccagcaa actctccage tcagtcaatt tctcctgcag ctctgtgctc 1860
ttcaactcag aatccttaag ctgctggctc tgcttctgat ggtcttccag tgtgggcagg 1920
tcagccagggt agcgtccaa ggtctcaata cgctgctgct tctcccgggt ctgctctgat 1980
tcttcttgge atttctttt caaattattg atatgtttat cacgacctt gacctttct 2040
tctgtttctc tcaactcctc agaatgcttc tgcaacgcca ctttgagcga ctctctgatg 2100
agctggactt caacttcaga agcagagagt ttcttttcaa ggtcaatctt ttctctgctc 2160
aaggcttctg tcttctgtgc aaactgtgca cgtaagaaag tgttttctcg ctgcaattcc 2220
tgtagctctc gcaagcagac atcaccaaag ggggcagggc ggcccaagag ggcactgttg 2280
acttgagatt cgctctctcg cactttctgc tccagctgag agatgtgtt cctctgcttg 2340
tcaatgagaa gctcttttct cttcagaagg tgttcattac tgttcaagat gctgatccac 2400
tgtgctggct ctaagatggg cagtgaagga ccaaaagcag caggatggtg gcagatggct 2460
ccattctgaa gctgcatttg ctccatctgt aaacgaatca attccagctg ctgccgacaa 2520
gtgctgagtt cacaagattg ctctcgggga tgccaagtgt caggactcgg ctgccacacc 2580
tgagagggca gaggttgga gagcccgga gcaggctgga gtcccaaagg gaggacccca 2640
ctgctattag aatgtggtcc attccgctca aacactgccc cgctgcccgg tgccttcttg 2700
gcctcaggca acactctgta caactcctta cttgtgctgg ttcttgggtt gtggaagcgg 2760
actcgggtgt gaggatctga ataaagtgtc tccatcattg ccgactgatt gagggttagat 2820
tccatgctag gaatatcaaa cttcctcgcc tcttctgtgc tttcatggcc cactgctgga 2880
aaccaggact gctcaattcc attttctcca gtagcaccag agaaatacat gagatctcta 2940
gataggcctg gagaatgttt cattgcaccg aggtctccat ttcttgtcat tcccacactt 3000
tcagccaacc ctgacaaagg gagtttagag gaagagggtc caacaggtgt agaatttggc 3060
ttggcaggag aggtccctaa agtagaaggc atcacatggg ctgttggaa gggtacgttg 3120
cttttgatgg gctggaaagg aggaactgcca cttgagctgc aaaaatcctc cgcaatatct 3180
gagcatgatg taccaatggc tgtgtcccca ctgtcggcta cacttgaaca ggggctgaag 3240
cggctccgaa agggctccga gataactggg gtctgccatt cagtccccag ggaactgcc 3300
ttctgaatca catcggaact cgtggaagtg acgtgagaga tcccctcagt tggatatttc 3360

```

```

tctgcatgg ccatcaatca cagttattta agccaaacgg gcctgaaagc gggcggcgaa 3420
atccctcact cggaagact gactgcagcc actacgtctg cggtagcgcg tggttccctc 3480
cctcagctcc tctaacggcc gttgcan 3507

```

```

<210> 839
<211> 1195
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(1195)
<223> n = A,T,C or G

```

```

<400> 839
naacccttcc ccagctgttt tcaccggttt aagtaagttt tgtacccttc cgtcgggaca 60
aaaaatttat ttggctcata cagtcttaag ccttcgggac ggatgtatgg cccctaagcc 120
cattcagatt ttactgccac aactgacacc ccttcagag tcgaaccctt ttctatctcg 180
gaagtccatc attccctcaa cttctgatct ctccagttcc agtcaaaaac cagaaatttt 240
aaggggtcca aattaaggcc acctgtttta acaagttctt taattctccc cggagttcct 300
acaccaggt gcaccacacg cttctccagc aactttacct gcgcctggac ctttatgtgc 360
tttgcaaata attttataac ttgtccgtct cctctgaatg ctgtcatcga cctaattgagc 420
tccagggctc ggacggccga gctgcagatg atcagcatca ggaccgattt cttctcactg 480
tggttcttcc taagttttac ccacttagga caaatttctt ttagctatga ggaaagactg 540
tgagtcaaat cattggcctt gaggaaacag gagtctggca ggttcagttc ttctaattca 600
atcaccaagc gtctgctgct ataatagtcc ttcacagct tctgtaggtc ttcaggtaac 660
cctggttttg gttctgattt tgcaagaaca tcagtaattt tcttctttct tcttttcctg 720
gtcttggtgg tattctcttt tctttccttt ggttgatca aaaaacattc ttttaggtgt 780
ttggttttct ctgaaggtag aggaactgga actgtctcct gctgcacac ttctgtgtct 840
ccttctcctt caccatctga tgcttctggg ctgctgcctg ctccagtcgg ctggttctcc 900
caccactcgt ctccgagatc gtctgccatt tcagctcagg tctcgacgtg ggcagaacat 960
cacgggtagg cgaccagctg cggagaatca cgttgtctca aagccaggcg gccggcgtag 1020
ctacacgcgg agctcccgct agacactgtc gcctccgccc cgcggcgatg acgtcacacc 1080
tctgcccgcg ctctccggca gccgctccca gactcgtcgc agtttccaca caggcgccga 1140
caggcagaag cagtttgga aacgaacata aatcccccca aagatttata cnnnn 1195

```

```

<210> 840
<211> 1194
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(1194)
<223> n = A,T,C or G

```

```

<400> 840
nnnnnnnnnc aaacttaagg ctaaggtacg aggcccgggg ggccacgggc tacgccacgg 60
gctttccaca gcgcggggga acgggaggct gcaggatggt caagctgacg gcggagctga 120
tcgagcaggc ggcgagtag accaacgcgg tgccgacccg ggagctggac ctccgggggt 180
ataaaattcc cgtcattgaa aatctagggt ctacgttaga ccagtttgat gctattgatt 240
tttctgacaa tgagatcagg aaactggatg gttttccttt gttgagaaga ctgaaaacat 300
tgtagtgaa caacaacaga atatgccgta taggtgaggg acttgatcag gctctgccct 360
gtctgacaga actcattctc accaataata gtctcgtgga actgggtgat ctggaccctc 420
tggcatctct caaatcgctg acttacctaa gtatcctaag aaatccggta accaataaga 480
agcattacag attgtatgtg atttataaag ttccgcaagt cagagtactg gatttccaga 540
aagtgaact aaaagagcgt caggagcag agaaaatgtt caagggcaaa cgggggtgcac 600
agcttgcaaa ggatattgcc aggagaagca aaacttttaa tccaggtgct ggtttgcca 660
ctgacaaaaa gaaaggtggg ccattctccag gggatgtaga agcaatcaag aatgccatag 720
caaatgcttc aactctggct gaagtggaga ggctgaaggg gttgctgcag tctggtcaga 780
tccctggcag agaacgcaga tcagggccca ctgatgatgg tgaagaagag atggaagaag 840

```

```

acacagtcac aaacgggtcc tgagcagtga ggcagatgta taataatagg ccctcttggg 900
acaagtcttg cttttcgaac atggtataat agccttggtt gtgttagcaa agtggaatct 960
atcagcattg ttgaaatgct taagactgct gctgataatt ttgtaatata agttttgaaa 1020
tctaaatgtc aattttctac aaattataaa aataaactcc actcactatg ctaaaaaaaaa 1080
aaaaaaaaag gcggccgcaa ttgttggggc ggtgggcacc gagaaaggtt ttaaacacat 1140
tatttggggg ggggcgccac attgaaaagg acaggggtta gcgggggataa nnnn 1194

```

<210> 841

<211> 2702

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2702)

<223> n = A,T,C or G

<400> 841

```

nagtattaaa cattttcaaa gttacttgcc aacatctaga aagataccag gttttctata 60
aaaaagaaaa ctggatttct ggatgcttct taaaaatcag gaagtctggc agcctgagcc 120
cacatcggtc ggagctgagc cgcacctgcg agttgcatct gggatctcca gttcaccggc 180
ccctaagctc ctgagagggtt ggcctgaccc tgaggttgcc tgtcaatcac catttcttcc 240
ctccactcct tgtgttacct gcctggtcct gcggggttgg caacaactca ggagccacc 300
tcgggtgggtt ttggagggtgc cgtgcacact gctgattggg aggctggacg ctgccagtct 360
gtccggaggtt tcctttaccc ctgagtagcc cccagactga actggcagcg agtggaggcc 420
acgatgcatg gttctcttga agctttgctc ttcctgcccc aagtcaccct gtcccttgcc 480
cacgcccatt tgatctgctc aaatgcacaa ctggagatgt gtgtctttcc ccacaggttt 540
cttggcgatc tcacaacaga aggaataaac aagccaggat tttacaaggg cccagccggc 600
tcccagggtga cctgagcag cctggggaac cagacacgag tgctgctgga ggagcaggct 660
cggcacctgc tgaacgagca ggaacacgcc accatggcct actacctgga tgagtaccgt 720
ggcggcagcg tctctgtgga ggcctcgtc atggcctgt tcaagctgct caacacccac 780
gccagaaca ctctggacct ggaggaaact ggcgaggctg tccagggcaa tatcaacgcc 840
ctcccagatg tgtccgtgga tgatgtcaga tccacctccc aggggctgtc aagcttcaag 900
ccactgcctc gccaccacc tctggcccaa ggcaacgacc tcccactagg ccagccaagg 960
aagctgggga gagaggacct ccagccacct tcctccacgc ctctctgctc gggcactgtc 1020
ttctcggtc cacagaaccg cagcccacca gcgggcaccg caccacccc agggacctcc 1080
tctgcacagg acttgccctc ttccccatc tatgcctccg tctccctgc caaccccag 1140
tccaaaggcg cgtggacgc ccatctggcc ctggtcaacc aacaccccat cggccccctc 1200
ccacgggtcc agtcacccc gcacctgaaa agccctctg cagaggccac agtggctggg 1260
ggctgccttc tgccccatc accctctggc caccagacc agacaggcac aaaccagcac 1320
tttgtcatgg tggaggtcca ccgccccgac agcgagccag acgtcaatga agtgagggcg 1380
ctgccccaga cgcgcacagc ctctacgctc tcccagctct cggacagcgg gcagactcta 1440
agcagggaca gtggtgtgga tgctggcgag gcagaggcca gcgccccagg ccgagggaag 1500
cagtcggtgt ccaccaagag caggagtagc aaggagctgc ctcggaacga gagggccaca 1560
gatggggcca acaaaccgcc tggacttctg gagcccacgt ccaactctgt cctgtgtgaag 1620
aaaagtgcgg ccacctggg catcgccatc gaggggtggc ccaacacccg ccagcccctg 1680
cctaggattg tcaatttca gagaggcggc tcagctcaca actgtgggca gctcaagggt 1740
ggccacgtga ttctggaagt gaatgggctg acgcttcggg gcaaggagca ccgggaggcc 1800
gcccgcatga tcgcccaggc cttcaagact aaggaccgtg actacattga ctttctggtc 1860
actgagttca atgtgatgct ctgaggcca aggcctgagg gcctcccacc actgcccagc 1920
ccctggctcc agtcccttc caccgttggc ttcattcaagc tcttgcggg gttggggctg 1980
catggccagg gtggcaggaa gacatcccc ctccatccca gccactgga ccagaactgg 2040
gagagggaaga gagcaggaca aggcagacag aaggtcaggt caggaaactg tgctgtactg 2100
ggtacacagt aggcgcccag gacaagtggg ttgcaagaca ggaagaaagg aaaaggaagg 2160
gcagagtgtc ggtttctcca ggttgggttg ggggcaactg tgtccccct ccagctagga 2220
cccagcccat cccagatgc ctgagccttt gtccaaagt aggtcactcg agaattcatg 2280
gacacggccc ccagttaggg ggcattctgc aagacctta gtgccacaaa taagcatcga 2340
gcacctcccc attcacacc cgttctctta tccccatgg tgtttattat 2400
ttatttcctt cccatgccc ctggggaccc caagggccca gcttccctct gcaccccag 2460
cctatcccag aggccttgca ggtgaccagc agtgtcattg tatttatata cagagcttat 2520
gactttaatt tttcaataaa gaaatctgaa caaggtttga aaaaaaaaaa aaaaaaaaaa 2580

```

```

ctcgagggggg ggccccgggac ccaattttccc tatagggagt cgattacaat tcaactgggcy 2640
gcgtttttaca acgtcggggac tgggaaaaaac ctgggggttac ccaactttaa tcgccttgca 2700
nn                                                    2702

```

```

<210> 842
<211> 4626
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(4626)
<223> n = A,T,C or G

```

```

<400> 842
ggagtcgacc cacgcgtccg gcggagtttc ggccttcgcc tgctggaaaa gcagtaggat 60
cggccagtgg cgacagcagg agctgagcct aagccctggc ggggctttgg gctgtagatt 120
cctgtctgac taaagggacc tcaaaaagga gggaaaatgg cttctgagtc tgaaactctg 180
aatcccagtg ctaggataat gaccttttat ccaactatgg aagagttccg aaacttcagt 240
agatacattg cctacattga atcccaagga gctcatcggg cagggctagc caaggttggt 300
cctccaaaag agtggaagcc acgagcatcc tatgatgaca ttgatgattt ggtcattcct 360
gcccccatcc aacagctggt gacggggcag tctggcctct ttactcagta caacatacag 420
aagaaagcca tgactgttcg agagttccgc aagatagcca atagcgataa gtactgtacc 480
ccacgtata gtgagtttga agagctcgag cggaaatact ggaaaaatct tacattcaat 540
cctccaatct atggtgcaga tgtgaatggt accctctatg aaaagcatgt tgatgagtgg 600
aatattggcc ggctgagaac aatcctggac ttggtggaag aggagagtgg gatcaccatt 660
gacggtgtga acaccccata cctggtactt tggcatgtgg aagacatcct ttgcttggca 720
cactgaagac atggacctct acagcatcaa ctacctgcac tttggagaac caaagtcctg 780
gtactctggt ccacctgagc atggaaagcg gttggaacgc ctgcctaaag gctttttccc 840
aggaagtgct caaagctgtg aggcatttct ccgccacaag atgacctga ttccccggt 900
aatgctgaag aaatatggaa ttcccttga caaggtgact caagaggctg gagagtttat 960
gatcactttc ccttatggtt accatgccgg ctttaaccat ggttttaact gtgaggagtc 1020
taccaatttt gctaccctgc ggtggattga gtacggcaag caagctgtgc tgtgtcctg 1080
tagaaaggac atggtgaaga tctccatgga tgtgtttgtg agaaagttcc agccagaaag 1140
gtacaaaactt tggaagctg ggaaggacaa cacagttatt gaccatactc tgcccacgcc 1200
agaagcagct gaggttctta aggagagtga actgcctcca agagctggca acgaggagga 1260
gtgcccagag gaggcatgg aaggggtgga gcatggagag gaaggagacc tgaagacaag 1320
cctggccaag caccgaatag ggacaaagag gcaccgagtt tgtcttgaaa taccacagga 1380
ggtgagtcag agtgagctct tcccaagga gcatctgagt tctgagcagt atgagatgac 1440
ggagtgcctg gcagccctcg cccctgtgag gccaccctat agctctgtgc ggcaagttga 1500
ggatggtctt accttcccag attattctga ctccactgaa gtcaaatttg aagagcttaa 1560
aaatgtcaaa ctagaagagg aggatgagga ggaagaacaa gaagcagctg ccttggatct 1620
ttctgtgaat cctgcgtctg tagggggacg ccttgtcttc tcaggctcca aaaagaaate 1680
atcttctagc ctgggctctg gctcttcacg ggattctatc tcttctgatt cagaaactag 1740
tgagcctctc tcctgccgag cccaagggca aacgggagtt ctcaactgtc acagttatgc 1800
caaaggggat ggcagggtca ctgtgggaga gccatgcacg aggaagaaag gaagcgccgc 1860
tagaagtttc agtgagcggg agctggcaga ggttgagat gaatacatgt tttccctaga 1920
agagaataag aagtccaagg gacgccgtca gcctttaagc aagctcccc gccatcacc 1980
acttgtgtg caggagtgtg tcagtgatga tgagacatct gaacagctga cccctgagga 2040
agaggctgag gagacagagg cctgggcca gctctgagc caactgtggc agaaccgacc 2100
tccaaacttt gaggtgaga aggaattcaa tgagaccatg gccaacagg cccctcactg 2160
cgctgtctgt atgatcttcc agacttatca tcaggttgaa tttggaggct ttaatcagaa 2220
ctgtggaat gcttcagatt tagcccccga gaagcagagg accaagccat tgattccaga 2280
aatgtgcttc acttcgactg gctgcagcac ggacatcaac ctttctactc cttatcttga 2340
ggaggatggc accagcatac tcgtttcctg caagaagtgc agcgtccggg tccatgccag 2400
ttgctatggg gtccccctg caaaggcttc tgaagactgg atgtgttctc ggtgttcagc 2460
caatgccta gaggaggact gctgtttatg ctcatlacga ggaggggcc tgcagagagc 2520
aaatgatgac aggtgggtcc acgtttcatg tgctgtggca attctggaag caaggtttgt 2580
caacattgca gaaagaagtc cgggtgatgt gacaaaaatc cccctgcccc gcttcaaaact 2640
gaaatgtatc ttctgtaaga agcggaggaa aagaactgct ggctgctgtg tgcagtgttc 2700
tcacggccgc tgcccaactg ccttccatgt gagctgcgcc caggctgccg gtgtgatgat 2760

```

```

gcagcctgac gactggcctt ttgtggtctt cattacctgc tttcggcaca agattcctaa 2820
tttgagcgt gccaaagggg ccttgcaaaag catcactgca ggccagaaag tcattagcaa 2880
gcataagaac gggcgcttct accagtgtga agtggtcagg ctaccaccg agaccttcta 2940
tgaagtcaac tttgatgatg gctccttcag cgacaatctt tctcctgagg acatagttag 3000
ccaggactgt ctccagtttg gtcctcctgc tgaaggggaa gtggtccaaag tgagatggac 3060
agacggccaa gtctatggag ccaagtttgt ggcctccac cctatccaaa tgtaccagg 3120
ggagtttgag gatggctcac aacttggtgt taagagagat gatgtataca cactggatga 3180
agagcttccc aagagagtca aatctagact gtcagtagcc tcagacatgc gcttcaatga 3240
gattttcaca gagaaagagg ttaagcaaga aaagaaacgg caacgagtta tcaactcaag 3300
ataccgggaa gattatattg agcctgcact ataccggggc atcatggagt aggtgcttcc 3360
aggtccaag ggattctcag ccatccaggc aagagcactc tgggttccac agcacagcag 3420
acatggaacg ctgaagtctc tgaagtgaa gttgtaaaaa gaaaaggaat gaaataaccg 3480
acccatcatc ttctaccca cctcatttgc attccgctgt agtgaaagga cgagccattt 3540
ctgggcacgt ggcagcagtc gctgatctcc cagctgaggg gctgagcact ggaatgctgt 3600
ggctgcactg gcccagtcct atagaggggt caactatgct ggctggactg gctgccttgt 3660
tcttgcccta ggacttagct tcataactat cacctgcacc gactaggctg aggtgctggt 3720
acttgcccca acccctactt ttgtatttat atgtgtgtgt gtgtgtgctg gcgtgctgct 3780
gtgcgtgtat gtttggctct gaccagcttc tgccagcccc tggcctttac tttcttctct 3840
gcctatgcag ggcaacaaa atgtgaaatt ctgccctcag ctgagctgag taagggctcc 3900
tgggggttgg ctggaagatg gtgtggcatc tgtccaggcc tggaaaccgtc tcaagacagt 3960
gctggcaaaag ctgcagtatt gagatgctaa ggagctgatg ccacctcttt gtcttccct 4020
aaaggagaac atggggataa catgggtgtg tgccacaac actctagggt cagagccct 4080
gtggcaaaag attacagggt gtgggtggg ataccctga atcggggatt ttaatgtagg 4140
aagcaggcag agcctggtgg gtgattctgt caacagaaaa ttgcaatcat gcaggggctg 4200
ggaggggttag gatgaaaaaa ctggggccat tggaggccca ctgtagggtg gaggagctg 4260
attttggggt ggggggtggg actagagggc aatactgaag gggtaaaca ggtttttgct 4320
cctcaagaat ttgtttgcct gggcccagga ttggagggtc tcacaccaat accctgtgta 4380
tacaagaatc agatttataa tacttccct tttttgttac gtatgaacac tataaaccaa 4440
attattttga aaactggtgc atcacctgt ccttagcaat aaaatgtgtt gacgagaaaa 4500
aaaaaaaaaa aaaaaagtcg acggggccgc gaatttagta gtataggcg gccgctctag 4560
aggatccaag cttacgtacg cgtgcatgcg acgtcatagc tcttctatag tgtcacctaa 4620
annnnn

```

<210> 843

<211> 2990

<212> DNA

<213> Homo sapiens

<400> 843

```

ggagtgcacc cacgcgtccg ctaatggctg acgcactacg cgcagaggga aagacgggtc 60
accaatagcg acacggatat ggccccgcgg ggggggttta ggcccaaagt ggtgtcggag 120
cagcgccat tagtgtcatc ctcccgctcc gggccggcgc ctctcctgg attcattcac 180
tcgctctttt cattcacgaa ggtagttagg cctagtggaa agccatggag agcgctctcc 240
ccgcccgcgg ctctcgttac tgggtcggcg cgggcaccgt ggccctaccta gccctgcgta 300
tttcgtactc gctcttcacg gccctccggg tctggggagt ggggaatgag gcgggggtcg 360
gcccggggct cggagaatgg gcagttgtca caggtagtac tgatggaatt ggaaaatcat 420
atgcagaaga gttagcaaag catggaatga aggttgtcct tatcagcaga tcaaaggata 480
aacttgacca ggtttccagt gaaataaaaag aaaaattcaa agtgagaca agaaccattg 540
ctgttgactt tgcacagaa gatatttatg ataaaattaa aacaggcttg gctggtcttg 600
aaatcggcac cttagtgaac aacgtgggaa tgctgtatga gtatcctgaa tactttttgg 660
atgttcctga cttggacaat gtgatcaaga aaatgataaa tattaatatt ctttctggtt 720
gtaagatgac acaattggtg ctgcctggca tgggtgaaag atccaaaggg gctattctga 780
acatttcacg tggcagtggt atgctccctg tcccactctt gaccatctat tctgcaacca 840
agacttttgt agatttcttc tctcagtgcc tccatgagga gtataggagc aaggcgctct 900
ttgtgcagag tgcctgcca tacttcgtag ctacaaaact ggctaaaatc cggaagccaa 960
ctttggataa gccctctccg gagacgtttg tgaagtctgc aattaaaaca gtcggcctgc 1020
aatcccgaac caatggatac ctgatccatg ctcttatggg ctcgataatc tcaaaccctg 1080
cttcttggtt tatttgaaa atagtcatg atatgaaca gtctacacgg gctcactatc 1140
tgaagaaaac caagaagaac taagcattga taactgcatt gtaacttggc cagatgctcc 1200
agcatatgca cgttccactgc aaagcaccct actggttttg aaaatctgac cttgtcattt 1260
caatagttat taacatgact aaatattatc ttaattaaga ggaaaataga agttgctttt 1320

```

```

aggggtttct gacatatatt ctggatacta tccgaggtaa ttttgaagtt taatataaat 1380
gctcatatca aatgaatata gaactaatat tgtcgggaac acctaataga aaggaataact 1440
attatagcaa atcacagaat gatagactca agcataaaac ttggcagttt tatctgcttc 1500
aaaatgccat tgatcattat tcctgtatct tctctgaaac tgattataaa aaccaatgtc 1560
cagctactct tttgtttttg acacttgaag aaatggagat cgatttgatt tgtttataag 1620
cagacacact gcaatttaca aagatctctt tacggtttta taaaattatc ttccagtttg 1680
tacatttata tgggaattgtt ctttatcaag ggtagctaag gacatgaaaa taattgtgaa 1740
atatggaatt atttctgaca catgaagccc actaaactat gctttcttat aatgcataatt 1800
tcttctcagt ttaaatgtat gtaaatatcg aagctatatg gtatgattta taaagataaa 1860
tgggccaaag tgtacattga gactggcagc catctatggt accactgaaa ccctgaccca 1920
gaaaagtggc ttgcttggac acccagctgc ctttgtttct gcattaaacc aatattgatc 1980
acacatatga cacaggctag tcctataaaa gtaatgactt catagaaatg gcattataat 2040
ttttaagttg atactctaca ggtagctatt gatataatta gttttaataa aacatgctgc 2100
aaccatggta tacaacaaaa atacatttct ttggtgattg aaattaaggc cgtatttaca 2160
atgacttaat ataagactga cttttatcct gcttcataac ttgtatggag aactcaccaa 2220
gaaagaattc aatactgtga aatatgcagc aagaagattg gtctttacct aggctgtgtt 2280
tcctaagctc tgagttttca gcaccagtag atttgtatta aaagaaaaaa aaatggggcc 2340
ttagcttctg gcttttaatt ttgccagcta aggacataaa acaaaaaataa acaaacaaaa 2400
acaaatagcc atctgctatc agcatcatta tgtaaaagaa aatatatttt agcccctaaa 2460
attaggaaga atgtaatctc agaataaagg ttgtcattta agttgaataa atatatagct 2520
ttatgaaaaa cacattgttt gccctttttt cctctcattt cattgtagaa atggtgacac 2580
cacaatgacc tggacagtat tttatctgct ttcacacatt ggttggttag ttggttggtt 2640
ggttggttgg tagattggtt ttagtgtagt ggttggtgat agaggaggga ttctcttgca 2700
agtatacaaa atactctctt tttcttttat ccaggttaga aaatagttgt aggctaagca 2760
cagtggttta cacctgtaaa ctcaatgctt tgggaggctg agacaggagg attgcttgag 2820
cccgaggagt caagcccagc ccgggcaacg tagcaagctc ttgtctctag aaaaaaatta 2880
aaaaataaaa aattagccag gtgtggtggc acgcacctgt agtcccagct acttggaagg 2940
ctgaggcagg aggattgcct gagcccaggg attagaagct accgtgagct 2990

```

<210> 844

<211> 421

<212> DNA

<213> Homo sapiens

<400> 844

```

acctttagta gagacggggt tatatcatgt tgcccaggct ggtctcaaac tcctgacttc 60
aggcaatcca cccacctcgg cctcccaaag tgctgggatt acaggcttga gccgctgcgc 120
ctggcccaaa ctgatgtctt atccttctta gtgcctcaca ccagatcctg ttcagacatg 180
ttataacaaa ttagtatgag tttatttttg cacaattttt gacatctatg catagttttt 240
cacaatacac attttcctta aagggtttga ggacctttt gtgtgactgc agacgcttct 300
acagtctgtg acttgtcttc tccttttcct aaagggtggt ttgatggctt tttaaaattt 360
tgattgaaga acaacttacc aatttaccag tttgggttaa ttttgggtta acgctttttg 420
t 421

```

<210> 845

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 845

```

cgacccacgc gtccgatcct cccttcactg ggcacgagct tctctcccag ggcggtgcga 60
cccggagctc cagcgcccga gtctccactt cgtttgctga aacttgcttt ctaccagcta 120
agaaccatgc tgcgagtgat tgtggaatct gccagcaata tccctaaaac gaaatttggc 180
aagccggatc ctattgtttc tgtcattttt aaggatgaga aaaagaaaac aaagaaagt 240
gataatgaat tgaaccctgt ctggaatgag attttgaggt ttgacttgag gggatatcca 300
ctggactttt catcttcctt tgggattatt gtgaaagatt ttgagacaat tggacaaaa 360

```

aaattaattg	gcacggcgac	tgtagccctg	aaggacctga	ctgggtgacca	gagcagatcc	420
ctgccgtaca	agctgatctc	cctgctaaat	gaaaaagggc	aagatactgg	ggccaccatt	480
gacttggtga	tcggctatga	tccgccttct	gctccacatc	caaatacact	gagcggggccc	540
agcgtgccag	gcacgggagg	agatggggaa	gaagatgaag	gtgatgaaga	caggttggac	600
aatgcagtc	ggggccctgg	gcccgaaggg	ccagttggga	cgggtgtcgg	agctcagctt	660
gctcggaggc	tcaccaaagt	aaagaacagc	cggcggatgc	tgtcaaataa	gccacaggac	720
ttccagatcc	gcgtccgagt	gattgagggc	cgacagttaa	gtggttaaca	cataaggcct	780
gtggtcaaa	ttcacgtctg	tggccagaca	caccgaacaa	gaatcaagag	aggaaacaac	840
cctttttttg	atgagttgtt	tttctacaat	gtcaacatga	ccccttctga	attgatggat	900
gagatcatca	gcacccgggt	ttataattct	cactctctgc	gggcagattg	tctgatgggg	960
gaatttaaga	ttgatgttgg	atttgtttat	gatgaacctg	gccatgctgt	catgagaaag	1020
tggcttcttc	tcaatgaccc	ggaagatacc	agttcaggtt	ctaaagggtt	tatgaaagtc	1080
agcatgtttg	tcctgggaac	cggagatgag	cctcctcctg	agagacgaga	tcgtgataat	1140
gacagtgatg	atgtggagag	taatttggtt	ctccctgctg	gcattgccct	ccggtgggtg	1200
acctctctgc	tgaatactta	ccgagctgag	gacatccccc	agatggatga	tgccttctca	1260
cagacagtaa	aggaaatatt	tggaggcaat	gcagataaga	aaaatctcgt	ggatcctttt	1320
gtagaagttt	cctttgctgg	aaaaaaggtt	tgtacaaaca	taattgagaa	aatgcaaac	1380
ccagagtggg	atcaggtcgt	caatcttcag	atcaagtttc	cttcagtgtg	tgaaaaata	1440
aaactaaca	tatatgactg	ggaccgtctt	actaaaaatg	atgtagtgtg	aacaacatat	1500
ctacacctct	ctaaaattgc	tgcctctggg	ggggaagtgg	aagattttct	atcttcggga	1560
actggggctg	catcatatac	agtaaacaca	ggagaaacag	aggtaggctt	tgttccaacg	1620
tttggacctt	gttacctgaa	tctttatgga	agccccagag	agtacacggg	attcccagac	1680
ccctctcttg	agctgaatac	tggaaaaggg	gaaggagtgt	cctacagagg	caggatcttg	1740
gttgaattag	ccacttttct	tgagaagaca	ccaccagata	aaaagcttga	gcccatttca	1800
aatgatgacc	tgctggttgt	tgagaaatac	cagcgaaggc	ggaagtacag	cctgtctgcc	1860
gtgtttcatt	cagccaccat	gttgcaagat	gttggtgagg	ccattcagtt	tgaagtcagc	1920
attgggaact	atggcaacaa	gtttgacacc	acctgtaagc	ctttggcatc	aacaactcag	1980
tacagccgtg	ctgtatttga	tggcaactac	tattattact	tgccttgggc	ccacaccaag	2040
ccagtgtgta	ccctgacttc	atactgggag	gatattatgc	atgcctgga	tgcggtgaac	2100
actctcctag	ctatgacaga	acggctgcaa	acaaatatag	aagctctaaa	atcagggata	2160
caaggtaaaa	ttcctgcaaa	ccagctggct	gaattgtggc	tgaagctgat	agatgaagtt	2220
atagaagaca	cgagatacac	gttgccctct	acagaaggaa	aagccaacgt	cacagttctc	2280
gatactcaga	tccgaaagct	gcggtccagg	tctctctccc	aaatacatga	ggcggctgtg	2340
aggatgaggt	cggaaagccac	agatgtgaag	tccacactgg	cagaaattga	ggactggctt	2400
gataaattaa	tgcagctgac	tgaagagcca	cagaacagca	tgcctgacat	catcatctgg	2460
atgatccggg	gagagaagag	actggcctat	gcacgaattc	cgcacatca	ggtcttgtac	2520
tccaccagtg	gtgagaatgc	atctggaaaa	tactgtggga	aaacccaaac	catctttctg	2580
aagtatccac	aggagaaaaa	caacgggcca	aagggtgctg	tggagtgtcg	agtgaacatc	2640
tggctaggct	taagtgtgtg	ggagaagaag	tttaacagct	tgcagaagg	aactttcacc	2700
gtctttgctg	aaatgtatga	aaatcaagct	ctcatgtttg	gaaaatgggg	tacttctgga	2760
ttagtaggac	gtcataagtt	ttctgatgtc	acaggaaaaa	taaaactcaa	gaggggaattt	2820
tttctgcctc	caaaaaggctg	ggaatgggaa	ggagagtggg	tagttgatcc	tgaaagaagc	2880
ttgtctgact	aggcagatgc	aggtcacacg	gagttcactg	atgaagtcta	tcagaacgag	2940
agccgctacc	ccgggggcga	ctggaagccg	gccgaggaca	cctacacgga	tgcgaacggc	3000
gataaagcag	catcaccacg	cgagttgact	tgtcctccag	gttggggaatg	ggaagatgat	3060
gcacgtgtct	atgacataaa	tcgagtgggtg	gatgagaaag	gctgggaata	tggaaatcacc	3120
attcctcctg	atcataagcc	caaatcctgg	gttgacagcag	agaaaatgta	ccacactcat	3180
agacggcgaa	ggctgggtccg	aaaacgcaag	aaagatttaa	cacagactgc	ttcaagcacc	3240
gcaagggcca	tggaggaatt	gcaagacca	gagggctggg	aatatgcttc	tctaattggc	3300
tggaaatttc	actggaacaa	acgtagtcca	gataccttcc	gccgcagacg	ctggaggaga	3360
aaaatggctc	cttcagaaac	acatggtgca	gctgccatct	ttaaaactga	aggtgccctt	3420
ggggcagaca	ctaccgaaga	tggggatgag	aagagcctgg	agaaacagaa	gcacagtgcc	3480
accactgtgt	tcggagcaaa	cacccccatt	gtttcctgca	attttgacag	agtctacatc	3540
taccatctgc	gctgctatgt	ctatcaagcc	agaaacctct	tggctttaga	taaggatagc	3600
ttttcagatc	catatgctca	tatctgtttc	ctccatcgga	gcaaaaccac	tgagatcatc	3660
cattcaaccc	tgaatccac	gtgggacca	acaattatat	tcgatgaagt	tgaaatctat	3720
ggggaacccc	aaacagttct	acagaatcca	cccaagttta	tcattggaact	ttttgacaat	3780
gaccaagtgg	gcaaagatga	attttttaga	cgaagcattt	tctctcctgt	ggtgaaactg	3840
aactcagaaa	tggacatcac	acccaaactt	ctctggcacc	cagtaatgaa	tggagacaaa	3900
gcctgcgggg	atgttcttgt	aactgcagag	ctgattctga	ggggcaagga	tggctccaac	3960
cttcccatcc	ttccccctca	aaggcgcca	aatctataca	tgggtcccca	ggggatcagg	4020

```

cctgtgggtcc agctcactgc cattgagatt ctagcttggg gcttaagaaa tatgaaaaac 4080
ttccagatgg cttctatcac atccccagt cttgttggg agtgtggagg agaaaggggtg 4140
gaatcggtgg tgatcaaaaa ctttaagaag acacccaact ttccaagttc tgttctcttc 4200
atgaaagtgt tcttgcccaa ggaggaattg tacatgcccc cactggtgat caaggtcatc 4260
gaccacaggg agtttggggc gaagcctgtc gtcggccagt gcaccatcga gcgcctggac 4320
cgctttcgct gtgacctta tgcagggaaa gaggacatcg tcccacagct caaagcctcc 4380
cttctgtctg cccaccatg ccgggacatc gttatcgaaa tggagacac caaaccatta 4440
ctggcttcta agctgacaga aaaggaggaa gaaatcgtgg actggtggag taaattttat 4500
gcttcctcag gggaacatga aaaatgcgga cagtataattc agaaaggcta ttccaagctc 4560
aagatatata attgtgaact agaaaatgta gcagaatttg agggcctgac agacttctca 4620
gatacgttca agttgtaccg aggcaagtgc gatgaaaatg aagatccttc tgtggttggg 4680
gagtttaagg gctcctttcg gatctaccct ctgccggatg accccagcgt gccagcccct 4740
cccagacagt ttcgggaatt acctgacagc gtcccacagg aatgcacggt taggatttac 4800
attgttcgag gcttagagct ccagccccag gacaacaatg gcctgtgtga cccttacata 4860
aaaataacac tgggcaaaaa agtcattgaa gaccgagatc actacattcc caacactctc 4920
aaccagctct ttggcaggat gtacgaaact agctgctact tactcaaga aaaagacctg 4980
aaaatttctg tctatgatta tgacaccttt acccgggatg aaaaagtagg agaaacaatt 5040
attgatctgg aaaaccgatt cctttccgcg tttgggtccc actgcggcat accagaggag 5100
tactgtgttt ctggagtcaa tacctggcga gatcaactga gaccaacaca gctgcttcaa 5160
aatgtcgcca gattcaaagg cttcccacaa cccatccttt ccgaagatgg gtagtagaatc 5220
agatatggag gacgagacta cagcttggat gaatttgaag ccaacaaaat cctgcaccag 5280
cacctcgggg cccctgaaga gcggttgcct cttcacatcc tcaggactca ggggctgggt 5340
cctgagcacg tggaaacaag gactttgcac agcaccttcc agccaacat ttcccaggga 5400
aaacttcaga tgtgggtgga tgttttcccc aagagtttgg ggccaccagg ccctccttcc 5460
aacatcacac cccggaaagc caagaaatac tacctgcgtg tgatcatctg gaacaccaag 5520
gacgttatct tggacgagaa aagcatcaca ggagaggaaa tgagtacat ctacgtcaaa 5580
ggctggattc ctggcaatga agaaaacaaa cagaaaacag atgtccatta cagatctttg 5640
gatggtgaag ggaattttaa ctggcgattt gttttcccgt ttgactacct tccagccgaa 5700
caactctgta tcgttgcgaa aaaagagcat ttctggagta ttgaccaaac ggaatttcga 5760
atcccaccca ggtgactcat tcagatatgg gacaatgaca agttttctct ggatgactac 5820
ttgggtttcc tagaacttga cttgcgtcac agcatcattc ctgcaaaatc accagagaaa 5880
tgcaggttgg acatgattcc ggacctcaaa gccatgaacc cccttaaagc caagacagcc 5940
tccctctttg agcagaagtc catgaaagga tgggtggccat gctacgcaga gaaagatggc 6000
gcccgcgtaa tggctgggaa agtgagatg acattggaat tcctcaacga gaaggaggcc 6060
gacgagaggc cagccgggaa ggggcgggac gaacccaaca tgaaccccaa gctggactta 6120
ccaaatcgac cagaaacctc cttcctctgg ttcaccaacc catgcaagac catgaagttc 6180
atcgtgtggc gccgctttaa gtgggtcatc atoggcttgc tgttctgct tatcctgctg 6240
ctctctgtgg ccgtgctcct ctactctttg ccgaactatt tgtcaatgaa gattgtaaag 6300
ccaaatgtgt aacaaaggca aaggcttcat ttccagagtc atccagcaat gagagaatcc 6360
tgcctctgta gaccaacatc cagtgtgatt ttgtgtctga gaccacaccc cagtagcagg 6420
ttacgccatg tcaccgagcc ccattgattc ccagagggtc ttagtcctgg aaagtcaggc 6480
caacaagcaa cgtttgcata atgttatctc ttaagtatta aaagttttat tttctaaagt 6540
ttaaatacatg tttttcaaaa tatttttcaa ggtggctggg tccattttaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttgaaat tgctaaatag aattcaaaaa 6660
tctctgcata ctgaggtgat atacttcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tagaatagtt agaacaattc ttatttatgc ccacaacat tgctatatatt 6780
tgtatggatg tcataaaagt ctatttaacc tctgtaatga aactaaataa aaatgtttca 6840
cctttaaaaa aaaaaaaaaa aaaaaagggg gggccgaacc caatgcgcta ttggaggggt 6900
atccaaataa tggccgcttt acannnn 6927

```

<210> 846

<211> 851

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1):..(851)

<223> n = A,T,C or G

<400> 846


```

ctggaatata atcagtggtt cacaaaactg tcctctaagg atctaaaact gtccactgat 60
gtctgtgaac agatcttgag ggtggtgagt aggtccaatc gactggaaga attggtgttg 120
gaaaatgctg gacttagaac agattttgca caaaaactgg ccagtgtctc agcacataat 180
cccaactcag gactccacac aattaacctt gctggcaacc cactggagga tagaggtgtg 240
tcctctttaa gtattcaatt tgccaaactc ccaaagggct taaagcactt aaatttatct 300
aaaacctcat tatcacctaa aggggtgaac agcctttctc agtcactcag tgccaatcca 360
ttgaccgcct ctacccttgt ccacctcgac ctctcaggga acgtccttcg tggagatgac 420
ctctcacaca tgtataattt tttggcccag ccaaagcca ttgttcactc ggatttatcc 480
aatacagaat gttccctgga catggtctgt ggagctcttc tccgtggatg ccttcaatat 540
ttagctgtgc tcaacctctc cagaactgtc ttctctcacc ggaaaggaaa agaagtacct 600
ccatctttca agcaattttt tagtagttct ctggctttga tgcacatcaa cctttcaggc 660
acaaaactgt ctcttgagcc cttaaagtga gtggttaatt cactttctcc agagctttta 720
aagttcaact tatttttacg aatgtgcttg agggaaggga gaaagatata taatccaaag 780
acaaaaacca cagatgagaa tgccttttta ctctggggca gaaaaataaa ttaaaannnn 840
nnnnnnnnnn n

```

<210> 847

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 847

```

cgaccacgc gtccgatcct cccttcactg ggcaagagct tctctcccag ggcggtgoga 60
cccggagctc cagcgcccga gtctccactt cgtttgtgta aacttgcttt ctaccagcta 120
agaaccatgc tgcgagtgat tgtggaatct gcagcaata tccctaaaac gaaatttggc 180
aagccggatc ctattgtttc tgtcattttt aaggatgaga aaaagaaaac aaagaaagt 240
gataatgaat tgaacctgt ctggaatgag attttggagt ttgacttgag gggatatacca 300
ctggactttt catcttccct tgggattatt gtgaaagatt ttgagacaat tggacaaaat 360
aaattaattg gcacggcgac tgtagccctg aaggacctga ctggtgacca gagcagatcc 420
ctgccgtaca agctgatctc cctgctaaat gaaaaagggc aagatactgg ggccaccatt 480
gacttggtga tgggtatga tccgccttct gctccacatc caatgacct gagcggggcc 540
agcgtgccag gcatgggag agatgggga gaagtgaag gtgatgaaga caggttgga 600
aatgcagtca ggggccctgg gcccaagggg ccagttggga cgggtgtcga agctcagct 660
gctcggaggc tcaccaaaag aaagaacagc cggcggatgc tgtcaaataa gccacaggac 720
ttccagatcc gcgtccgagt gattgagggc cgacagttaa gtggaacaa cataaggcct 780
gtggtcaaaag ttacgctctg tggccagaca caccgaacaa gaatcaagag aggaacaac 840
cctttttttg atgagttgtt tttctacaat gtcaacatga ccccttctga attgatgat 900
gagatcatca gcatcgggtt ttataattct cactctctgc gggcagattg tctgatggg 960
gaatttaaga ttgatgttg atttgtttat gatgaacctg gccatgctgt catgagaaag 1020
tggtctcttc tcaatgaccc ggaagatacc agttcagggt ctaaagggtta tatgaaagtc 1080
agcatgtttg tcctgggaac cggagatgag cctctcctg agagacgaga tcgtgataat 1140
gacagtgatg atgtggagag taatttggtta ctccctgctg gcattgccct ccggtgggtg 1200
accttcttgc tgaaaatcta ccgagctgag gacatcccc agatggatga tgccttctca 1260
cagacagtaa aggaaatatt tggaggcaat gcagataaga aaaatctcgt ggatcctttt 1320
gtagaagttt cctttgctgg aaaaaaggtt tgtacaaaca taattgagaa aaatgcaaac 1380
ccagagtgga atcaggtcgt caatcttcag atcaagtttc cttcagtgtg tgaaaaaata 1440
aaactaacia tatatgactg ggaccgtctt actaaaaatg atgtagttg aacaacatat 1500
ctacacctct ctaaaattgc tgctctggt ggggaagtgg aagatttctc atcttcggga 1560
actggggctg catcatatac agtaaacaca ggagaaacag aggtaggctt tgttccaacg 1620
tttgaccctt gttacctgaa tctttatgga agccccagag agtacacggg attcccagac 1680
ccctatgatg agctgaatac tggaaagggg gaaggagttg cctacagagg caggatcttg 1740
gttgaattag ccacttttct tgagaagaca ccaccagata aaaagcttga gccattttca 1800
aatgatgacc tgtgtgtgtg tgagaataac cagcgaaggc ggaagtacag cctgtctgcc 1860
gtgtttcatt cagccaccat gttgcaagat gttggtgagg ccattcagtt tgaagtcagc 1920
attgggaact atggcaacaa gtttgacacc acctgtaagc ctttggcatc aacaactcag 1980
tacagccgtg ctgtatttga tggcaactac tattattact tgccttgggc ccacaccaag 2040

```

ccagttgttta	ccctgacttc	atactgggag	gatattagtc	atcgcctgga	tgcggtgaac	2100
actctcctag	ctatggcaga	acggctgcaa	acaaatatag	aagctctaaa	atcagggata	2160
caaggtaaaa	ttcctgcaaa	ccagctggct	gaattgtggc	tgaagctgat	agatgaagtt	2220
atagaagaca	cgagatacac	gttgctcttc	acagaaggaa	aagccaacgt	cacagttctc	2280
gataactcaga	tccgaaagct	gcggtccagg	tctctctccc	aaatacatga	ggcggtctgt	2340
aggatgaggt	cggaaagccac	agatgtgaag	tccacactgg	cagaaattga	ggactggctt	2400
gataaattaa	tgcagctgac	tgaagagcca	cagaacagca	tgcctgacat	catcatctgg	2460
atgatccggg	gagagaagag	actggcctat	gcacgaattc	ccgcacatca	ggtcttgtac	2520
tccaccagtg	ctggaagtgc	atctgaaaaa	tactgtggga	aaacccaaac	catctttctg	2580
aagtatccac	aggagaaaaa	caacgggcca	aaggtgcctg	tggagttgct	agtgaacatc	2640
tggctaggct	taagtgtctg	ggagaagaag	tttaacagct	tgcagaagg	aactttcacc	2700
gtctttgctg	aaatgtatga	aaatcaagct	ctcatgtttg	gaaaatgggg	tacttctgga	2760
ttagtaggac	gtcataagtt	ttctgatgtc	acaggaaaaa	taaaactcaa	gaggggaattt	2820
tttctgcctc	caaaaaggctg	ggaatgggaa	ggagagtggg	tagttgatcc	tgaagaagc	2880
ttgctgactg	aggcagatgc	aggtcacacg	gagttcactg	atgaagtcta	tcagaacgag	2940
agccgctacc	ccggggcgga	ctggaaagccg	gccgaggaca	cctacacgga	tgcgaaacggc	3000
gataaagcag	catcaccag	cgagttgact	tgtcctccag	gttgggaatg	ggaagatgat	3060
gcatggtctt	atgacataaa	tcgagtgggtg	gatgagaaaag	gctgggaata	tggaatcacc	3120
attcctcctg	atcataagcc	caaatcctgg	gttgagcag	agaaaatgta	ccacactcat	3180
agacggcgaa	ggctggtccg	aaaacgcaag	aaagatttaa	cacagactgc	ttcaagcacc	3240
gcaagggcca	tggaggaatt	gcaagacca	gagggctggg	aatatgcttc	tctaattggc	3300
tggaaatttc	actggaaca	acgtagtcca	gataccttcc	gccgcagacg	ctggaggaga	3360
aaaattgctc	cttcagaaac	aaatgtgca	gctgccatct	ttaaacttga	agggtgccctt	3420
ggggcagaca	ctaccgaaga	tggggatgag	aagagcctgg	agaaacagaa	gcacagtgcc	3480
accactgtgt	tcggagcaaa	cacccccatt	gtttcctgca	attttgacag	agtctacatc	3540
taccatctgc	gctgctatgt	ctatcaagcc	agaaacctct	tggctttaga	taaggatagc	3600
ttttcagatc	catatgtcca	tatctgtttc	ctccatcgga	gcaaaaccac	tgagatcatc	3660
cattcaaccc	tgaatcccac	gtgggacca	acaattatat	tcgatgaagt	tgaatcttat	3720
ggggaacccc	aaacagtctt	acagaatcca	cccaaagtta	tcatggaact	ttttgacatt	3780
gaccaagtgg	gcaaagatga	atttttagga	cgaagcattt	tctctcctgt	ggtgaaactg	3840
aaactcagaaa	tggacatcac	acccaaactt	ctctggcacc	cagtaatgaa	tggagacaaa	3900
gcctgcgggg	atgttcttgt	aactgcagag	ctgattctga	ggggcaagga	tggctccaac	3960
cttcccattc	ttccccctca	aagggcgcca	aatctataca	tgggtcccca	ggggatcagg	4020
cctgtggtcc	agctcactgc	cattgagatt	ctagcttggg	gcttaagaaa	tatgaaaaac	4080
ttccagatgg	cttctatcac	atccccagt	cttgttgtgg	agtgtggagg	agaaaggggtg	4140
gaatcggtag	tgatcaaaaa	ccctaagaag	acacccaact	ttccaagttc	tgttctcttc	4200
atgaaaagtgt	tcttgcccaa	ggaggaattg	tactgcccc	cactggtgat	caagggtcatc	4260
gaccacaggc	agtttgggctg	gaagcctgtc	gtcggccagt	gcaccatcga	gcgcctggac	4320
cgctttcgct	gtgaccctta	tgcagggaaa	gaggacatcg	tcccacagct	caaagcctcc	4380
cttctgtctg	ccccaccatg	ccgggacatc	gttatcgaaa	tggagacac	caaaccatta	4440
ctggcttcta	agctgacaga	aaaggaggaa	gaaatcgtgg	actggtggag	taaaattttat	4500
gcttctctcag	gggaacatga	aaaatgcgga	cagtatatct	agaaaggcta	ttccaagctc	4560
aagatatata	atttgtgaact	agaaaatgta	gcagaatttg	agggcctgac	agacttctca	4620
gatacgttca	agttgtaccg	aggcaagtgc	gagaaaaatg	aagatccttc	tgtgggttga	4680
gagtttaagg	gtctctttcg	gatctaccct	ctgccggatg	accccagcgt	gccagcccct	4740
cccagacagt	ttcggaatt	acctgacagc	gtcccacagg	aatgcacggg	taggattttac	4800
attgttcgag	gcttagagct	ccagccccag	gacaacaatg	gcctgtgtga	cccttacata	4860
aaaataacac	tgggcaaaaa	agtcattgaa	gaccgagatc	actacattcc	caacactctc	4920
aacccagtct	ttggcaggat	gtacgaactg	agctgctact	tacctcaaga	aaaagacctg	4980
aaaatttctg	tctatgatta	tgacaccttt	acccgggatg	aaaaagtagg	agaaacaatt	5040
attgatctgg	aaaaccgatt	cctttcccg	tttgggtccc	actgcggcat	accagaggag	5100
tactgtgttt	ctggagtcaa	tacctggcga	gatcaactga	gaccaacaca	gctgcttcaa	5160
aatgtcgcca	gattcaaagg	cttcccacaa	cccatccttt	ccgaagatgg	gagtagaatc	5220
agatatggag	gacgagacta	cagcttggat	gaatttgaag	ccaacaaaat	cctgcaccag	5280
cacctcgggg	cccctgaaga	gcggttgct	cttcacatcc	tcaggactca	ggggctggtc	5340
cctgagcacg	tggaaacaag	gaactttgcac	agcaccttcc	agcccaacat	ttcccaggga	5400
aaacttcaga	tgtgggtgga	tgttttcccc	aagagtttgg	ggccaccagg	ccctcctttc	5460
aacatcacac	ccggaaaagc	caagaaatc	ctctgcgtg	tgatcatctg	gaacaccaa	5520
gacgttatct	tggacgagaa	aagcatcaca	ggagaggaaa	tgagtgcacat	ctacgtcaaa	5580
ggctggattc	ctggcaatga	agaaaacaaa	cagaaaacag	atgtccatta	cagatctttg	5640
gatggtgaag	ggaatttttaa	ctggcgattt	gttttcccgt	ttgactacct	tccagccgaa	5700

```

caactctgta tcgttgcgaa aaaagagcat ttctggagta ttgaccaaac ggaatttcga 5760
atccccacca ggctgatcat tcagatatgg gacaatgaca agttttctct ggatgactac 5820
ttgggtttcc tagaacttga cttgcgtcac acgatcatto ctgcaaaatc accagagaaa 5880
tgacaggttg acatgattcc ggacctcaaa gccatgaacc cccttaaagc caagacagcc 5940
tccctctttg agcagaagtc catgaaagga tgggtggccat gctacgcaga gaaagatggc 6000
gcccgcgtaa tggctgggaa agtggagatg acattggaaa tcctcaacga gaaggaggcc 6060
gacgaagagg cagccgggaa ggggcgggac gaaccaaca tgaaccccaa gctggactta 6120
ccaaatcgac cagaaacctc cttcctctgg ttcaccaacc catgcaagac catgaagttc 6180
atcgtgtggc gccgctttaa gtgggtcatc atcggcttgc tgttcctgct tatcctgctg 6240
ctcttcgtgg ccgtgctcct ctactctttg ccgaactatt tgtcaatgaa gattgtaaag 6300
ccaaatgtgt aacaaaggca aaggcttcat ttccagagtc atccagcaat gagagaatcc 6360
tgctctgta gaccaacatc cagtgtgatt ttgtgtctga gaccacacc cagtagcagg 6420
ttacgccatg tcaccgagcc ccattgattc ccagagggtc ttagtccttg aaagtcaggc 6480
caacaagcaa cgtttgcac atgttatctc ttaagtatta aaagttttat tttctaaagt 6540
ttaaatcatg tttttcaaaa tatttttcaa ggtggctggg tccatttaaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttggaat tgctaaatag aattcaaaaa 6660
tctctgcac ctgaggtgat atacttcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tagaatagtt agaacaatc ttatttatgc ccacaaccat tgctatattt 6780
tgtatggatg tcataaaaagt ctatttaacc tctgtaatga aactaaataa aaatgtttca 6840
cctttaaaaa aaaaaaaaaa aaaaaagggg gggccgaacc caatcgcta ttggagggtt 6900
atccaaataa tggccgcttt acannnn 6927

```

<210> 848

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 848

```

cgaccacgc gtccgatcct cccttcactg ggcacgagct tctctcccag ggcggtgcga 60
cccggagctc cagcgccga gtctccactt cgtttgctga aacttgcttt ctaccagcta 120
agaaccatgc tgcgagtgat tgtggaatct gccagcaata tccctaaaac gaaatttggc 180
aagccgcatc ctattgtttc tgtcattttt aaggatgaga aaaagaaaac aaagaaagt 240
gataatgaat tgaacctgt ctggaatgag attttgaggt ttgacttgag gggatatacca 300
ctggactttt catcttccct tgggattatt gtgaaagatt ttgagacaat tggacaaaat 360
aaattaattg gcacggcgac tgtagccctg aaggacctga ctggtgacca gagcagatcc 420
ctgccgtaca agctgatctc cctgctaaat gaaaaagggc aagatactgg ggccaccatt 480
gacttggtga tccgctatga tccgccttct gctccacatc caaatgacct gagcggggcc 540
agcgtgccag gcgtgggagg agatggggaa gaagatgaag gtgatgaaga caggttggac 600
aatgcagtca ggggccctgg gcccaagggg ccagttggga cgggtgctga agctcagctt 660
gctcggaggc tcaccaaagt aaagaacagc cggcggatgc tgtcaaataa gccacaggac 720
ttccagatcc gcgtccgagt gattgagggc cgacagttaa gtggttaacaa cataaggcct 780
gtggtcaaaag ttcacgtctg tggccagaca caccgaacaa gaatcaagag aggaaacaac 840
cctttttttg atgagttgtt tttctacaat gtcaacatga ccccttctga attgatggat 900
gagatcatca gcatccgggt ttataattct cactctctgc gggcagattg tctgatggg 960
gaatttaaga ttgatgttgg atttgtttat gatgaacctg gccatgctgt catgagaaag 1020
tggtctcttc tcaatgaccc ggaagatacc agttcaggtt cttaaagggtt tatgaaagtc 1080
agcatgtttg tcctgggaac cggagatgag cctcctcctg agagacgaga tcgtgataat 1140
gacagtgatg atgtggagag taatttggtt ctccctgctg gcattgccct ccggtgggtg 1200
accttcttgc tgaaaatcta ccgagctgag gacatcccc agatggatga tgccttctca 1260
cagacagtaa aggaaatatt tggaggcaat gcagataaga aaaatctcgt ggatcctttt 1320
gtagaagttt cctttgctgg aaaaaaggtt tgcataaaca taattgagaa aaatgcaaac 1380
ccagagtggg atcaggtcgt caatcttcag atcaagtttc cttcagtggt tgaaaaata 1440
aaactaacia tatatgactg ggaccgtctt actaaaaatg atgtagttgg aacaacatat 1500
ctacacctct ctaaaattgc tgctctgggt ggggaagtgg aagatttctc atcttcggga 1560
actggggctg catcatatac agtaaacaca ggagaaacag aggtaggctt tgttccaacg 1620
tttggacctt gttacctgaa tctttatgga agccccagag agtacacggg attcccagac 1680

```

ccctatgatg	agctgaatac	tggaaagggg	gaaggagtgt	cctacagagg	caggatcttg	1740
gttgaattag	ccacttttct	tgagaagaca	ccaccagata	aaaagcttga	gcccatttca	1800
aatgatgacc	tgctggttgt	tgagaaatac	cagcgaaggc	ggaagtacag	cctgtctgcc	1860
gtgtttcatt	cagccaccat	gttgcaagat	gttggtgagg	ccatttcagtt	tgaagtcagc	1920
attgggaact	atggcaacaa	gtttgacacc	acctgtaagc	ctttggcatc	aacaactcag	1980
tacagccgtg	ctgtatttga	tggcaactac	tattattact	tgccttgggc	ccacaccaag	2040
ccagttgtta	ccctgacttc	atactgggag	gatattagtc	atcgcttga	tgcggtgaac	2100
actctcctag	ctatggcaga	acggctgcaa	acaaatatag	aagctctaaa	atcagggata	2160
caaggtaaaa	ttcctgcaaa	ccagctggct	gaattgtggc	tgaagctgat	agatgaagtt	2220
atagaagaca	cgagatacac	gttgcccttc	acagaaggaa	aagccaacgt	cacagttctc	2280
gatactcaga	tccgaagct	gcggtccagg	tctctctccc	aaatacatga	ggcggtctgt	2340
aggatgaggt	cggagccac	agatgtgaag	tccacactgg	cagaaattga	ggactggctt	2400
gataaattaa	tgcagctgac	tgaagagcca	cagaacagca	tgcctgacat	catcatctgt	2460
atgatccggg	gagagaagag	actggcctat	gcacgaattc	ccgcacatca	ggtcttgtac	2520
tccaccagtg	gtgagaatgc	atctggaaaa	tactgtggga	aaacccaaac	catctttctg	2580
aagtatccac	aggagaaaaa	caacgggcca	aaggtgcctg	tggagttgct	agtgaacatc	2640
tggctaggct	taagtgtgtg	ggagaagaag	tttaacagct	tgcagaagg	aactttcacc	2700
gtctttgctg	aatgtatga	aatcaagct	ctcatgtttg	gaaaatgggg	tacttctgga	2760
ttagtaggac	gtcataagtt	ttctgatgtc	acaggaaaaa	taaaactcaa	gaggggaattt	2820
tttctgcctc	caaaaggctg	ggaatgggaa	ggagagtggg	tagttgatcc	tgaaagaagc	2880
ttgctgactg	aggcagatgc	aggtcacacg	gagttcactg	atgaagtcta	tcagaacgag	2940
agccgtacc	ccggggcgca	ctggaagccg	gccagggaca	cctacacgga	tgcgaacggc	3000
gataaagcag	ctgacccag	cgagttgact	gttcctccag	gttgggaatg	ggaagatgat	3060
gcatggtctt	atgacataaa	tgcagtggtg	gatgagaaag	gctgggaata	tggaaatcacc	3120
attcctcctg	atcataagcc	caaatectgg	gttgcagcag	agaaaatgta	ccacactcat	3180
agacggcgaa	ggctggtccg	aaaacgcaag	aaagatttaa	cacagactgc	ttcaagcacc	3240
gcaagggcca	tggaggaatt	gcaagacca	gagggctggg	aatatgcttc	tctaattggc	3300
tggaaatttc	actggaacaa	acgtagtcca	gataccttcc	gccgcagacg	ctggagggag	3360
aaaaatggctc	cttcagaaac	acatggtgca	gctgcctatc	ttaaacttga	aggtgcctt	3420
ggggcagaca	ctaccgaaga	tggggatgag	agagccctgg	agaaacagaa	gcacagtgcc	3480
accactgtgt	tccgagcaaa	cacccccatt	gtttcctgca	attttgacag	agtctacatc	3540
taccatctgc	gctgctatgt	ctatcaagcc	agaaacctct	tggctttaga	taaggatagc	3600
ttttcagatc	catatgtcca	tatctgtttc	ctccatcgga	gcaaaaccac	tgagatcatc	3660
cattcaaccc	tgaatcccac	gtgggacca	acaattatat	tcgatgaagt	tgaaatctat	3720
ggggaacccc	aaacagttct	acagaatcca	cccaaagtta	tcagtgaact	ttttgacaa	3780
gaccaagtgg	gcaaagatga	attttttaga	cgaagcattt	tctctcctgt	ggtgaaactg	3840
aactcagaaa	tggacatcac	acccaaactt	ctctggcacc	cagtaatgaa	tggagacaaa	3900
gcctgcgggg	atgttcttgt	aactgcagag	ctgattctga	ggggcaagga	tggctccaac	3960
cttcccattc	ttccccctca	aagggcgcca	aatctataca	tgggtcccca	ggggatcagg	4020
cctgtggtcc	agctcactgc	cattgagatt	ctagcttggg	gcttaagaaa	tatgaaaaac	4080
ttccagatgg	cttctatcac	atccccagat	cttgttgttg	agtgtggagg	agaaaggggtg	4140
gaatcggtgg	tgatcaaaaa	ccttaagaag	acacccaact	ttccaagttc	tgttctcttc	4200
atgaaagtgt	tcttgcccaa	ggaggaattg	tacatgcccc	cactggtgat	caaggctcat	4260
gaccacaggc	agtttggcg	gaagcctgtc	gtcggccagt	gcaccatcga	gcgcctggac	4320
cgctttcgct	gtgaccctta	tgcagggaaa	gaggacatcg	tcccacagct	caaagcctcc	4380
cttctgtctg	ccccaccatg	ccgggacatc	gttatcgaaa	tgggaagacac	caaaccatta	4440
ctggcttcta	agctgacaga	aaaggaggaa	gaaatcgtgg	actggtggag	taaattttat	4500
gcttcctcag	gggaacatga	aaaatgcgga	cagtatatct	agaaaggcta	ttccaagctc	4560
aagatatata	attgtgaact	agaaaatgta	gcagaatttg	agggcctgac	agacttctca	4620
gatacgttca	agttgtaccg	aggcaagtcg	gatgaaaatg	aagatccttc	tgtggttgga	4680
gagtttaagg	gtccttttcg	gatctaccct	ctgcgggatg	accocagcgt	gccagcccct	4740
cccagacagt	ttcggaatt	acctgacagc	gtccacagag	aatgcacggg	taggatttac	4800
attgttcgag	gcttagagct	ccagccccag	gacaacaatg	gcctgtgtga	cccttacata	4860
aaaataaacac	tgggcaaaaa	agtcattgaa	gaccgagatc	actacattcc	caacactctc	4920
aacccagtct	ttggcaggat	gtacgaactg	agctgctact	tacctcaaga	aaaagacctg	4980
aaaatttctg	tctatgatta	tgacaccttt	acccgggatg	aaaaagtagg	agaaacaatt	5040
attgatcttg	aaaaccgatt	cctttccgcg	tttgggtccc	actgcggcat	accagaggag	5100
tactgtgttt	ctggagtcaa	tacctggcga	gtcctaactg	gaccaacaca	gctgcttcaa	5160
aatgtcgcca	gattcaaagg	cttcccacaa	cccatccttt	ccgaagatgg	gagtagaatc	5220
agatatggag	gacgagacta	cagcttggtg	gaatttgaag	ccaacaaaat	cctgcaccag	5280
cacctcgggg	cccctgaaga	gcggcttgct	cttcacatcc	tcaggactca	ggggctggtc	5340

```

cctgagcacg tggaaacaag gactttgcac agcaccttcc agcccaacat tcccaggga 5400
aaacttcaga tgtgggtgga tgttttcccc aagagtttgg ggccaccagg ccctcctttc 5460
aacatcacac cccggaaagc caagaaatac tacctgcgtg tgatcatctg gaacaccaag 5520
gacgttatct tggacgagaa aagcatcaca ggagaggaaa tgagtgcacat ctacgtcaaa 5580
ggctggattc ctggcaatga agaaaacaaa cagaaaacag atgtccatta cagatctttg 5640
gatggtgaag ggaattttta ctggcgattt gttttcccg ttgactacct tccagccgaa 5700
caactctgta tcgttgcgaa aaaagagcat ttctggagta ttgaccaaac ggaatttcga 5760
atcccaccca ggctgatcat tcagatatgg gacaatgaca agttttctct ggatgactac 5820
ttgggtttcc tagaacttga cttgcgtcac acgatattc ctgcaaaatc accagagaaa 5880
tgaggttgg acatgattcc ggacctcaaa gccatgaacc cccttaaagc caagacagcc 5940
tccctccttg agcagaagtc catgaaagga tgggtggccat gctacgcaga gaaagatggc 6000
gccgcgtaa tggctgggaa agtggagatg acattggaaa tcctcaacga gaaggaggcc 6060
gacgagaggc cagccgggaa gggcggggac gaaccaca tgaaccccaa gctggactta 6120
ccaaatcgac cagaaacctc ctctctctgg ttcaccaacc catgcaagac catgaagttc 6180
atcgtgtggc gccgttttaa gtgggtcatc atcggcttgc tgttctgct tatcctgctg 6240
ctcttcgtgg cgtgtctcct ctactctttg ccgaactatt tgtcaatgaa gattgtaaag 6300
ccaaatgtgt aacaaaggca aaggcttcat ttccagagtc atccagcaat gagagaatcc 6360
tgcctctgta gaccaacatc cagtgtgatt ttgtgtctga gaccacacc cagtagcagg 6420
ttacgccatg tcaccgagcc ccattgattc ccagagggtc ttagtcctgg aaagtcaggc 6480
caacaagcaa cgtttgcato atgttatctc ttaagtatta aaagttttat tttctaaagt 6540
ttaaactcatg tttttcaaaa ttttttcaa ggtggctggt tccattttaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttggaat tgctaaatag aattcaaaaa 6660
tctctgcato ctgagtgat atacttcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tagaatagtt agaacaattc ttatttatgc ccacaacat tgctatatatt 6780
tgtatggatg tcataaaagt ctatttaacc tctgtaatga aactaaataa aaatgtttca 6840
cctttaaaaa aaaaaaaaaa aaaaaagggg gggccgaacc caatgccta ttggaggggt 6900
atccaaataa tggccgcttt acannnn 6927

```

<210> 849

<211> 783

<212> DNA

<213> Homo sapiens

<400> 849

```

gaaatggatt cgaaatatca gtgtgtgaag ctgaatgatg gtcacttcat gcctgtcctg 60
ggatttggca cctatgcgcc tgcaaggtt cctaaaagta aagctttaga ggccaccaa 120
ttggcaattg aagctggctt ccgccatatt gattctgctc atttatacaa taatgaggag 180
caggttggac tggccatccg aagcaagatt gcagatggca gtgtgaagag agaagacata 240
ttctacactt caaagctttg gtgcaattcc catcgaccag agttgggtccg accagccttg 300
gaaaggtcac tgaaaaatct tcaattggat tatgttgacc tctaccttat tcattttcca 360
gtgtctgtaa aggccaggct gagcgaacgt gatccctaaa cagcatgaaa actggcacaa 420
aaatactact atttgcacga cagatgcgat ctactgtagc cacgatggcg aggccagtgc 480
gcagacacgt gtaacagaat gcaggcatcg gccaacgtcc atcgcgggat gtccacactt 540
caaccgacag gcaagctggt agactgcac tcacaaccaag acagggcctc aagttacaaa 600
gccttgtctg tcaaacaagg tggaatgta cataccttac tttaaaccag gagaaaaact 660
gctggcatat ctgcaagtcc aacagaccat tgtactcggg agcctattgt gctctgcgat 720
cccagcgaga agaaacatgg gttgaaccga actcgacggg ctctagcag taaccactcc 780
aag 783

```

<210> 850

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 850

```

cgaccacgc gtccgatcct cccttcactg ggcacgagct tctctcccag ggcggtgcga 60

```

```

ccccgagctc cagcgcccga gtctccactt cgtttgctga aacttgcttt ctaccagcta 120
agaaccatgc tgcgagtgat tgtggaatct gccagcaata tccctaaaac gaaatttggc 180
aagccggatc ctattgtttc tgtcattttt aaggatgaga aaaagaaaac aaagaaagtt 240
gataatgaat tgaacctgtg ctggaatgag attttggagt ttgacttgag ggggtatacca 300
ctggactttt catcttccct tgggattatt gtgaaagatt ttgagacaat tggacaaaat 360
aaattaattg gcacggcgac tgtagccctg aaggacctga ctggtgacca gagcagatcc 420
ctgccgtaca agctgatctc cctgctaaat gaaaaagggc aagatactgg ggccaccatt 480
gacttggtag tcggctatga tccgccttct gctccacatc caaatgacct gagcggggccc 540
agcgttccag ccatgggagg agatggggaa gaagatgaag gtgatgaaga cagggttgac 600
aatgcagtca ggggccctgg gcccaagggg ccagttggga cgggtgctgga agctcagctt 660
gctcggaggc tcaccaaagt aaagaacagc cggcggatgc tgtcaaataa gccacaggac 720
ttccagatcc gcgtccgagt gattgagggc cgacagttaa gtggttaacaa cataaggcct 780
gtggtcaaaag ttcacgtctg tggccagaca caccgaacaa gaatcaagag aggaaacaac 840
cctttttttg atgagtgtgt tttctacaat gtcaacatga ccccttctga attgatggat 900
gagatcatca gcactccggg ttataattct cactctctgc gggcagattg tctgatgggg 960
gaattttaaga ttgatgttgg atttgtttat gatgaacctg gccatgctgt catgagaaag 1020
tggcttcttc tcaatgaccc ggaagatacc agttcaggtt cttaaaggta tatgaaagtc 1080
agcatgtttg tcctgggaac cggagatgag cctcctcctg agagacgaga tcgtgataat 1140
gacagtgatg atgtggagag taatttggtt ctccctgctg gcattgccct ccggtgggtg 1200
accttcttgc tgaaaatcta ccgagctgag gacatccccc agatggatga tgccttctca 1260
cagacagtaa aggaaatatt tggaggcaat gcagataaga aaaatctcgt ggatcctttt 1320
gtagaagttt cctttgctgg aaaaaaggtt tgtacaaaca taattgagaa aaatgcaaac 1380
ccagagtgga atcaggtcgt caatcttcag atcaagtttc ctccagtgtg tgaaaaaata 1440
aaactaaca tatatgactg ggacgctctt actaaaaatg atgtagttgg aacaacatat 1500
ctacacctct ctaaaattgc tgcctctggt ggggaagtgg aagatttctc atcttcggga 1560
actggggctg catcatatac agtaaacaca ggagaaacag aggtaggctt tgtccaacg 1620
tttgaccctt gttacctgaa tctttatgga agccccagag agtacacggg attcccagac 1680
ccctatgatg agctgaatac tggaaagggg gaaggagtgt cctacagagg caggatcttg 1740
gttgaattag ccacttttct tgagaagaca ccaccagata aaaagcttga gcccatttca 1800
aatgatgacc tgctggttgt tgagaaatac cagcgaaggc ggaagtacag cctgtctgcc 1860
gtgtttcatt cagccaccat gttgcaagat gttggtgagg ccattcagtt tgaagtcagc 1920
attgggaact atggcaacaa gtttgacacc acctgtaagc ctttggcatc aacaactcag 1980
tacagccgtg ctgtatttga tggcaactac tattattact tgccttgggc ccacaccaag 2040
ccagtgttta ccctgacttc atactgggag gatattagtc atcgctgga tgcggtgaac 2100
actctcctag ctatggcaga acggctgcaa acaaatatag aagctctaaa atcagggata 2160
caagtgaaaa ttctgcaaa ccagctggct gaattgtggc tgaagctgat agatgaagtt 2220
atagaagaca cgagatacac gttgcctctc acagaaggaa aagccaacgt cacagttctc 2280
gatactcaga tccgaaagct cgggtccagg tctctctccc aaatacatga ggcgctgtg 2340
aggatgaggt cggaagccac agatgtgaag tccacactgg cagaaattga ggactggctt 2400
gataaattaa tgcagctgac tgaagagcca cagaacagca tgcctgacat catcatctgg 2460
atgatccggg gagagaagag actggcctat gcacgaattc ccgcacatca ggtcttgtac 2520
tccaccagtg gtgagaatgc atctggaaaa tactgtggga aaacccaaac catctttctg 2580
aagtatccac aggagaaaaa caacgggcca aaggtgcctg tggagttgcg agtgaacatc 2640
tggctaggct taagtgcgtg ggagaagaag tttaacagct tcgcagaagg aactttcacc 2700
gtctttgctg aaatgtatga aaatcaagct ctcatgtttg gaaaatgggg tacttctgga 2760
ttagtaggac gtcataagtt ttctgatgtc acaggaaaaa taaaactcaa gaggggaattt 2820
tttctgcctc caaaaggctg ggaatgggaa ggagagtgga tagttgatcc tgaaagaagc 2880
ttgctgactg aggcagatgc aggtcacacg gagttcactg atgaagtcta tcagaacgag 2940
agccgctacc ccgggggcca ctggaagccg gccgaggaca cctacacgga tgcgaacggc 3000
gataaagcag catcaccag cgagttgact tgtcctccag gttgggaatg ggaagatgat 3060
gcatggtctt atgacataaa tcgagtgtgt gatgagaaag gctgggaata tggaatcacc 3120
attcctcctg atcataagcc caaatcctgg gttgcagcag agaaaatgta ccacactcat 3180
agacggcgaa ggctggtccg aaaacgcaag aaagatttaa cacagactgc ttcaagcacc 3240
gcaagggcca tggaggaatt gcaagaccaa gagggctggg aatatgcttc tctaattggc 3300
tggaattttc actggaacaa acgtagtcca gataccttcc gccgcagacg ctggaggaga 3360
aaaatggctc cttcagaaac acatggtgca gctgccatct ttaaacttga aggtgccctt 3420
ggggcagaca ctaccgaaga tggggatgag aagagcctgg agaaacagaa gcacagtgc 3480
accactgtgt tccggacaaa caccctcatt gtttctgca attttgacag agtctacac 3540
taccatctgc gctgctatgt ctatcaagcc agaaacctct tggctttaga taaggatagc 3600
ttttcagatc catatgctca tatctgtttc ctccatcgga gcaaaaccac tgagatcatc 3660
cattcaaccc tgaatccac gtgggaccaa acaattatat tcgatgaagt tgaaatctat 3720

```

```

ggggaacccc aaacagttct acagaatcca cccaaagtta tcatggaact ttttgacaat 3780
gaccaagtgg gcaaaagtga attttttagga cgaagcattt tctctcctgt ggtgaaactg 3840
aactcagaaa tggacatcac acccaaactt ctctggcacc cagtaatgaa tggagacaaa 3900
gcctgcgggg atgttcttgt aactgcagag ctgattctga ggggcaagga tggctccaac 3960
cttcccattc tttcccctca aaggcgcca aatctatata tgggtcccca ggggatcagg 4020
cctgtgtgtc agctcactgc cattgagatt ctagtctggg gcttaagaaa tatgaaaaac 4080
ttccagatgg ctctatcac atccccagt ctgtgtgtgg agtgtggagg agaaaggggtg 4140
gaatcgggtg tgatcaaaaa ccttaagaag acaccaact tccaagttc tgttctcttc 4200
atgaaagtgt tcttgcccaa ggaggattg tacatgcccc cactggtgat caaggtcatc 4260
gaccacaggc agtttgggag gaagcctgtc gtcggccagt gcaccatcga gcgcctggac 4320
cgctttcgct gtgaccctta tgcagggaaa gaggacatcg tcccacagct caaagcctcc 4380
cttctgtctg cccaccatg ccgggacatc gttatcgaaa tgggaagacac caaacatta 4440
ctggcttcta agctgacaga aaaggaggaa gaaatcgtgg actggtggag taaattttat 4500
gcttcctcag gggacatga aaaatgcgga cagtatatcc agaaaggcta ttccaagctc 4560
aagatatata attgtgaact agaaaatgta gcagaatttg agggcctgac agacttctca 4620
gatacgttca agttgtaccg aggcaagtgc gatgaaaatg aagatccttc tgtggttggg 4680
gagtttaagg gctcctttcg gatctaccct ctgccggatg accccagcgt gccagcccct 4740
cccagacagt ttcgggaatt acctgacagc gtcccacagg aatgcacggt taggatttac 4800
attgttcgag gcttagagct ccagcccag gacaacaatg gcctgtgtga cccttacata 4860
aaaataacac tgggcaaaaa agtcattgaa gaccgagatc actacattcc caacactctc 4920
aaccagttct ttggcaggat gtacgaactg agctgctact taactcaaga aaaagacctg 4980
aaaatttctg tctatgatta tgacaccttt acccgggatg aaaaagttag agaaacaatt 5040
attgatctgg aaaaccgatt cctttccgcg tttgggtccc actgcggcgt accagaggag 5100
tactgtgttt ctggagtcaa tacctggcga gatcaactga gaccaacaca gctgcttcaa 5160
aatgtcgcga gattcaaagg cttcccacaa cccatccttt ccgaagatgg gagtagaatc 5220
agatatggag gacgagacta cagcttggat gaatttgaag ccaacaaaat cctgcaccag 5280
cacctcgggg cccctgaaga gcggttctgt cttcacatcc tcaggactca ggggctggtc 5340
cctgagcacg tggaaacaag gactttgcac agcaccttcc agcccaacat tcccaggga 5400
aaacttcaga tgtgggtgga tgttttcccc aagagtttgg ggccaccagg ccctccttcc 5460
aacatcacac cccgaaaagc caagaaatc tactgcgtg tgatcatctg gaacacaaag 5520
gacgttatct tggacgagaa aagcatcaca ggagaggaaa tgagtacat ctacgtcaaa 5580
ggctggatct ctggcaatga agaaaacaaa cagaaaacag atgtccatta cagatctttg 5640
gatggtgaag ggaattttaa ctggcgattt gttttcccg ttagctacct tccagccgaa 5700
caactctgta tcgttgcgaa aaaagagcat ttctggagta ttgaccaaac ggaatttcga 5760
atcccacca ggctgatcat tcagatatgg gacaatgaca agttttctct ggatgactac 5820
ttgggtttcc tagaacttga ctgtgcgtcac acgatcattc ctgcaaaatc accagagaaa 5880
tgcaggttgg acatgattcc ggacctcaaa gccatgaacc cccttaaagc caagacagcc 5940
tccctctttg agcagaagtc catgaaagga tgggtggccat gctacgcaga gaaagatggc 6000
gcccgcgtaa tggctgggaa agtggagatg acattggaaa tcctcaacga gaaggaggcc 6060
gacgagaggc cagccgggaa gggcggggac gaacccaaca tgaaccccaa gctggactta 6120
ccaaatcgac cagaaacctc cttcctctgg ttcaccaacc catgcaagac catgaagttc 6180
atcgtgtggc gccgctttaa gtgggtcatc atcggttgc tgttctctgt tatcctgctg 6240
ctcttcgtgg ccgtgctcct ctactctttg ccgaactatt tgtcaatgaa gattgtaaag 6300
ccaaatgtgt aacaaaagca aaggcttcat ttccagagtc atccagcaat gagagaatcc 6360
tgcctctgta gaccaacatc cagtgtgatt ttgtgtctga gaccacacc cagtagcagg 6420
ttacgccatg tcaccgagcc ccattgattc ccagagggtc ttagtcctgg aaagtcaggc 6480
caacaagcaa cgtttgcatc atgttatctc ttaagtatta aaagttttat tttctaaagt 6540
ttaaatcatg tttttcaaaa ttttttcaa ggtggctggg tccattttaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttgaaat tgctaaatag aattcaaaaa 6660
tctctgcatc ctgaggtgat atacttcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tagaatagtt agaacaattc ttatttatgc ccacaacct tgctatattt 6780
tgtatggatg tcataaaagt ctatttaacc tctgtaatga aactaaataa aaatgtttca 6840
cctttaaaaa aaaaaaaaaa aaaaaagggg gggccgaacc caatcgctta ttggaggggt 6900
atccaaataa tggccgcttt acannnn 6927

```

<210> 851

<211> 1465

<212> DNA

<213> Homo sapiens

<400> 851


```

acgcggggga aagtgtgtag cacctccacc ttctctctct ctctccccct cctctcctg 60
ccagccaagt gaagacatgc ttacttcccc ttacacctcc ttcattgatg taccattgga 120
atgacatact gcatcctata gttataccat ccactctgaa atcaatgtga atttaacttc 180
agttccatac agaaacttct tttccacaga tggagtttaa gccaagctg gagtgcgatg 240
gtgcaatccc aactcactgc aacctctgcc tcccaggttc aagctatttt cctggcttag 300
cctccggagt agctggaatt acagatgtgc gcccccatga ccagtaagaa acggttgaac 360
tggatgcaat tttatcaca gcttggttaa gactgectct gtccctcctc tcacatgcca 420
ttggttaacc agcagacagt gtgctcaggg gcgttgtcag ctcatgctc ttatagcctg 480
tgaggggagg agaaacattt gctaaccagg ccagtgcag aaatggattc gaaataccag 540
tgtgtgaagc tgaatgatgg tcaactcatg cctgtcctgg gatttggcac ctatgcgcct 600
gcagaggttc ctaaaagtaa agctctagag gccgtcaaat tggcaataga agccgggttc 660
caccatattg attctgcaca tgtttacaat aatgaggagc aggttggact ggccatccga 720
agcaagattg cagatggcag tgtgaagaga gaagacatat tctacacttc aaagctttgg 780
agcaattccc atcgaccaga gttggtccga ccagccttg aaaggtcact gaaaaatctt 840
caattggact atgtgacct ctatcttatt cattttccag tgtctgtaaa ggtaggcagc 900
ttgtgtgata aaattaattt cacttttggt ctacgataa atattgtttt catggagatt 960
tgaactaagc tttttcttag gaggacatag ggattttaac atggaagaag agccctaaac 1020
ataactccta attcctttct atggaacaga aagcaatttt gaatccatac ttccgtgatt 1080
gcatgtctac aagaaaagag agtgcagaat cctcaaagcc tctgcctcaa aaacttgagg 1140
aaatgacaat catctccttg aaggcacaaag gtcttattta tgattcctga tttoacctct 1200
tgggatgttc acagacacag agtttcatga agctgtggtg tccagaaaac ctgctgcaca 1260
taggggtcac aatgagtttc catcttcttg cctcttttca aggggcaaga actcagtcctg 1320
ggaatgtctt aaactacaaa ccttcattgg aaacctgtgt gctctgtctt cctctctttt 1380
cacactggag gttttatatt tgcttagcca tgaattcttg tgtcattcat aacttttgtc 1440
ttaaggtagc tcggccgcca ccgcg 1465

```

<210> 852

<211> 4343

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(4343)

<223> n = A,T,C or G

<400> 852

```

nnnnccgcgt ggtgagaggc acacattggg ctgagggcat agcatgggat ggtaaactctg 60
gaggagaagg cacagaggca cggaggctca agtatggggg gacaggatgg ggagccctct 120
ggctcacagg gctcctgcag agtctcagca ctactgtct ctggcaggaa aggatgagcg 180
cctggtcact gtacgtctgc atccgtgcc tccacctgac ttcttccgcc cgtgccgctt 240
gctgccaaac aagaacaatg tgcgctctgc ctggtaccga gggcagagtc ctgcagggga 300
tggtagccca gagctccta cccccgcta taacacatgg gtccctgaag atacagttct 360
cgagtcctat ttgcagctgc tgtcaacct tctgagttca gcccagggcc tgaaggatgg 420
cgtggcactt ctgaaggctt ggctgaggca gcgggagctg gacaagggcc aggggtgggtt 480
tactgggttc cttgtctcca tgcgtgttgt ctctcttggt tctacacgca agatccatac 540
caccatgagt ggctaccagg tcctgagaag tgtcttgag tttctggcca ctacagacct 600
gacagtcaac gggatcagtt tatgtctcag ctcatatccc tctttgccgg ccctggctga 660
cttccaccag gccttctccg ttgtcttcc tggattcctca ggccatctca acctctgtgc 720
tgatgtcact gcctctactt accaccaggt acagcatgag gcacggctgt ctatgatgtt 780
cgtggacagc agagctgacg acgggttcca cctgctgttg atgactccca aacctatgat 840
ccgggctttt gacctgtcc tgcattccg tccactgagt cgcctgcagg cagcgtgcc 900
ccggctgaag ctctggccag agctgcagga caatggtggg gactatgtct cagctgcttt 960
gggccccctg accaccctcc tggagcaggg cctgggggct cggctgaacc tgctggctca 1020
ctctcgaccc ccagtcccag agtgggacat cagccaagat ccaccaaagc acaaagactc 1080
tgggaccctg accctgggac tccttctccg gcctgaggga ctgaccagcg tccttgagct 1140
gggtccagag gcagaccagc ctgaggctgc taaattccgc cagttctggg gatcccgctc 1200
ggagcttcgg cgtttccagg acggagccat tcgggaagct gtggtctggg aggcagctc 1260
tatgtccag aagegcctta tccccacca ggtggtcacc cacctcttgg cactccatgc 1320
tgacatccca gaaacctgtg tccactatgt ggggggcccc ctggatgcac ttatccaagg 1380
cctgaaagag acctccagca caggtgagga ggccctggtg gcggcggtac gttgctacga 1440

```



```

cgacctcagt cgcctactgt ggggggctaga ggggtctccca ctgacctgtgt ctgctgttca 1500
gggagctcac ccagtgtctg gctacacaga ggtgttccca ccaactccag tccgtccagc 1560
cttctccttc tatgagactc tgcgggagcg gtcctcactg ctgccccggc tcgataagcc 1620
ctgtccggcc tacgtggagc ccatgaccgt ggtttgtcac ctggagggca gtggccagtgt 1680
gccacaggac gctgaggccg tgcagcgggt ccgagctgcc ttccagctgc gcctggcaga 1740
gctgttgaca caacagcatg gtctgcagtg ccgtgccact gccacgcaca cggatgtcct 1800
taaggatgga tttgtgtttc ggattcgcgt ggcctatcag cgggagcccc agatcctgaa 1860
ggaggtgcag agcccagagg ggatgatctc gctgagggac acagctgcct cctccgcct 1920
tgagaagagac acaaggcagt tgccactgct caccagtgcc ctgcacggac tgcagcagca 1980
gcacccagcc ttctctgtgt tggcacggct ggccaagcgg tgggtgcgtg cccagcttct 2040
tggtaggggt ttctgtgatg agagcctgga tctgggtggc gctgcccttt tcctgcaccc 2100
tgagcccttc acccctccga gttcccccca ggttggcttc ctctgattcc tttctctggg 2160
atcaacgttt gattggaaga acaaccccct ctttgtcaac ctcaataatg agctcactgt 2220
ggaggagcag gtggagatcc gcagtggctt cctggcagct cgggcacagc tccccgtcat 2280
ggtcattgtt acccccaag accgcaaaaa ccttgtgtgg acacaggatg gaccctcagc 2340
ccagatcctg cagcagcttg tggctcctgg agctgaagcc ctgccatgt tagagaagca 2400
gctcatggat ccccggggac ctggggacat caggacagtgt ttccggccgc ccttggacat 2460
ttacgacgtg ctgattcgcc tgtctcctcg ccataccccg cggcacccgc aggtgtgga 2520
ctcgcacagt gcctccttct gccggggcct gctcagccag ccggggccct catccctgat 2580
gcccgtgctg ggctatgata ctcctcagct ctatctgacg cagctcaggg aggccttttg 2640
ggatctggcc cttttcttct atgaccagca tgggtggagag gtgattgggt tcctctggaa 2700
gcccaccagc ttccagccgc agcccttcaa ggcctccagc acaaaggggc gcattggtat 2760
gtctcgaggt ggggagctag taatggtgcc caatgttgaa gcaatcctgg aggactttgc 2820
tgtgtgggt gaaggcctgg tgcagactgt ggaggccga agtgagaggt ggactgtgtg 2880
atcccagctc tggagcaagc tgtagacgga cagcaggaca ttggacctct agagcaagat 2940
gtcagtagga tgacctccac cctccttggg catgaatcct ccatggaggg cctgctggct 3000
gaacatgctg aatcatctcc aacaaaaccc agccccaact ttctctctga tgcctcagca 3060
ttggggcagg ggcattgttg cccatgtagt ctcctgggcc tcaccatccc agaagaggag 3120
tgggagccag ctcagagaag gaactgaacc caggagatcc atccacctat tagccctggg 3180
cctggacctc cctgcgattt ccactcctt tcttagtctt ctccagaaa cagagaaggg 3240
gatgtgtgcc tgggagaggc tctgtctcct tcctgctgcc aggacctgtg cctagactta 3300
gcatgccctt cactgcagtg tcaggccttt agatgggacc cagcgaaaat gtggcccttc 3360
tgagtcacat caccgacact gagcagtgga aaggggctat atgtgtatga atagaccaca 3420
ttgaaggagc acaatgccct cctgtgttga tgccacttcc cagggtggag acagtggaaa 3480
agaaccgagg acaggaaagg attgggtagg tgaaggggtc aggggactgg tagtcaccca 3540
atcttgagga ggtgcaaaaa gcactggggg ctacccgta gctgcatctg ccctggctgt 3600
ttgcccgttc atgtcacaaa ctgccactac tatgtacctg cagtggggtt gcagagatgg 3660
gggagactca agtcttactc cccaggagct cccagggcc caggaggaga atgctgcctc 3720
ctttcagtct ggtctacacc cactttcttg tagcctctct gcttctctga attctggctg 3780
tttttcaga ctcagctcaa atagtgcctc tccttaagcc catccctcgc cccagccctg 3840
aggtgatctt tccctcctct gaactattag agcagttact gtctgttcag ttcgtttggc 3900
aggcacacac agtggcataa attctattgt tttgaactct gattttaaatt taaattgcag 3960
ctgggcgtgg tggctcatgc ttgtaatccc aacacttagg gactcaggag aatcacttga 4020
gctcaggagt tctagaccaa tctgggcaac agagagaccc catctctttt aaataaaaa 4080
ttaaatgctt aatttcccc ggtattcctg gctgtctgcc cctttcacat aaattttaaa 4140
cctggtttct gtatgtaaac tccttgagg gcaagaacat gtttgaacaa tagacttctt 4200
cgggtcttcc tagcacctat acagggcttg gtcaggggca tcagcccggc agatgggggg 4260
agaaagcccc ggaagattgg gaagtacagg gacttggaaac tgcgcaaagg ttgacggaaa 4320
gaaacagaaa aaannnnnnn nnn 4343

```

<210> 853
 <211> 282
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(282)
 <223> n = A,T,C or G

<400> 853

```

accattttcta ggcttcttaa agcggacagg atatgcacat gtctgtcctc cataccgtgt 60
tcattatggtt ctaaaagttg gatcccatca gtttgtttta tagaatgaag acaggtgtgt 120
gtgtgtgtgt gtgtgtgtgt ggggtgtgtc cacaagaga gagagagaga gtgagagtgc 180
gtgactcttt ggacatttgc tgtttattta taatgcgacc ccagatatgg agtttcagt 240
tctggaggac gtgttacagc atgtggtatc ctgggcatct an 282

```

<210> 854

<211> 2763

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2763)

<223> n = A,T,C or G

<400> 854

```

gtccgggagc ctggctgtgg gtgagtgtt cctgaagggg tgaaagtgtg agacagcgga 60
tcaccgcagt tagccgtcac acagctccca aagggtatgg aggggggttt tcttctcatc 120
cggctccagc tggactctgg gaatgtcaga catccacatc tcggagcctg gctgtggggc 180
catctttgga aaaaagatct gggaatgatt gtctagcctc cagcctcaac ttacttgatg 240
cttgagagac tcaaaagcccc gtggtcagct gccctgcaaa gaaagtattt tgaccttggc 300
atttggacag ctcccctctc tcccattggc ctgacaatgc tgaatgggct cctgattaaag 360
gactcaagcc caccatgtct gctgcaccag gttaacaaga ctgccagtt agataccttc 420
aactaccaga gctgctttat gcaaagtgtc tttgaccatt tccctgagat cttattttatc 480
caccggacct ataaccaag gggtaaggtc ttatatacct tcctgggtgga tggacctcgg 540
gtgcagctgg agggctatct tgcccagaga gtctactttg ccatccctgc caaggaggac 600
actgaaggcc tggcccagat gttccaagta tttagaagt ttaatccagc atgggagaga 660
gtctgtacca tectgttggg tectcatttc ctccactgc ctatcctagc tatggagtgc 720
cccacagctg aggtccttct ctacgccttc cactttgtga agttcctcca ggccaagtgc 780
tatcagctgt cccctgaacg gcccggtgaa aggetgtctc tgacctccct gcagagcaca 840
atgtgtctcag ccacagccaa gctgcccag cttactcac actggctgct caacgaccgc 900
atctggctgg cgcaccgcac ggcagaagcc gagctgagag cagccactac ttccagagcc 960
tcgaggtcac caccacatc ctccagccag tctttggtac caccatctct gagaaacaag 1020
gtatggcttc tctgttccgt tacatgcagc agaactctgc agacaaggca aacttcaacc 1080
agggcctgtg tgcccagaac aatcatgtct cctcagacac catcccgaag agccccaacc 1140
tggagagctg aggtacaatc ccacatccag cactccctca atgccatctg cacagggccca 1200
gcagcccaac tgtgcctggg cgagcttgcgt gtggtccaga aatccacaca cctcattggc 1260
tctggctcac aaaagatgaa catacagatc ctggaagata ccataaggt gcagccccag 1320
ccccctgcca gctgcagctg ctactttaac caggccttcc acctgccctg ccgccacatc 1380
ctagccatgc tcagtgtccg ccgccaggtg ctccagcccg acatgctgcc ggctcagtgg 1440
acggcaggtc gtgctaccag tctagacagc atcctgggca gcaagtggag tgagacctg 1500
gataagcacc tggcagtgac tcacctcacc gaggaggtgg gtcagctgtt gcagctctgc 1560
accaaggagg agtttgagcg gaggtatagc accctgcggg aactggccga cagctggatt 1620
gggccttatg agcaggtcca actctgatta ttctcgatgc ccagaaatgc tcatgcacct 1680
gtgcgcactc annnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1740
ntcccttaca ctgtgttact tccgtgggce ctcttccag aacaaggaca acaaggaca 1800
ggttgaaggg tcttctcatc taccatggcc tgetacctag catgtgtcta gctcaatgag 1860
acaggagtca gcaaactcta atctgttttag tttactcagg tggccacata cagtctctgt 1920
tgtatattct tggttttgtt ttaatathtt ttttcttttt tttttttttt tttttttttt 1980
gagagggggt ctgtctccag cctgggaggg tgagactcca tctaaaaaaa ataaaaataa 2040
tggcaacccc tggctctaaag taagagataa aacatcaggt ggtgaggttg aggtttgggg 2100
cttggtagca gttgccccag tcatgagatg actcacttaa cccgtctcct ttaagtgagc 2160
tgggctggga ggcttccctac aggggaagag gccctctggt ggagctgact cagccaggct 2220
ccctgaactt ttttcttctg cccatccctg ggtcaataaa actgaatgtt gcatattcta 2280
gcacttgtct agtttttttt ttgttccata gaaggcagtt tagggatatat catggagaga 2340
atagacttta gagtgttata caacatgtga atccgtggtt gttccttccc tgcctgattt 2400
ttgtgcctgg ttctgccttt tactagtcat gagacttatt aggataagtt acccctctaa 2460
acctcaacct gattatctgt aaaaatgggg atctccacag ggtatgttca cagagcaggc 2520
atacctagtg ggtgctcaat taagtattaa ttttcttccc ttgcctatgg tcctatgacc 2580
tgccttcaac atgctgggaa atttaaggca agaggagaat tcaaatacct aggacttaat 2640

```

ataagaaatt ctggccaggc atggtggctc acacctgtaa tcccagcact ttgggaggcc 2700
 gaggcaggcg gatcacctga ggtcgggagt ttgagaccag cctgaccaac atggtgaaac 2760
 cgn 2763

<210> 855
 <211> 555
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(555)
 <223> n = A,T,C or G

<400> 855
 actaatgtta ttaatgtggc tgacaagtaa ttagaaaact ggaaattaaa ttttacaac 60
 atttttaaaa tcgctacaat taaaaaaatt caagatgggt acattatgaa tatgaatgaa 120
 atgtcattag cgacttcgtt aaatgtatat gtaattctat attttcccca aaaccacat 180
 tttatgaaga atatttattt atttatttat ttttgttttt tgagatggag tctcgtctctg 240
 ttgccagact ggagtgcaat ggtgcgatct ccgctcactg caacctccac ctccctgggtt 300
 caaacgattc tcctgcctca gcctcccgag tagctgggac tacaggcacc gccaccacgc 360
 ccggctaatt tttgtatttt tagtagagac aggggtttcac catgttagcc aggatgggtct 420
 ccgtctcttg acctcgtgat ccacccgcct tggcctccca aagtgcgggg attacagacg 480
 cgagctaccg tgcccagccg caacattgat tttttaagta aagtcgtgaa cgnnnnnnnn 540
 nnnnnnnnnn nnnnn 555

<210> 856
 <211> 628
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(628)
 <223> n = A,T,C or G

<400> 856
 nntggcgggc gcccgggcag gtacatgtaa aatcttactg cagttttatg tttttaatag 60
 tcaaaataga atgtataatc ttgatgatgt ttataaatca tcaaatgcc tttgggggtgt 120
 aaaaatgggt tcttgagcag cagtgtctaa tgattccatc acaaatttgt tataaagcca 180
 aactcccatt gaaagtgtca ctttatgctt aataggaaat cgttatgatt aaagcatcaa 240
 ggaagcaaat ataaagtta atgaaaatcc aagggggaagt tctaaattgc aaaacttggc 300
 acttatctac agtattttga aaaataacac caccggtatt caaacctacc taggaatatc 360
 tcaaaataac ctgttaatta agtgttctta gaaaggggag tgggggcaag aaagatgatg 420
 tatgcacatg gcgaaaagat cagatgggtac agaaaggtat aaaaacttgg tcccttcctc 480
 cctaccctaa tactcctctc caaaagtaac cagtttcaag tgtcttgtag tcacaggaaa 540
 acaatttttt atttttttat agcaaatttg tactttaaaa atttcacatt aatagaatca 600
 gactatatat actcttctgt accttgcg 628

<210> 857
 <211> 6927
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(6927)
 <223> n = A,T,C or G

<400> 857
 cgaccacgc gtccgatcct cccttcactg ggcacgagct tctctcccag ggcggtgcga 60

```

cccggagctc cagcgcccga gtctccactt cgtttgctga aacttgcttt ctaccagcta 120
agaaccatgc tgcgagtgat tgtggaatct gccagcaata tccctaaaac gaaatttggc 180
aagccggatc ctattgtttc tgtcatTTTT aaggatgaga aaaagaaaac aaagaaagt 240
gataatgaat tgaacctgt ctggaatgag attttgaggt ttgacttgag gggatatcca 300
ctggactttt catcttccct tgggattatt gtgaaagatt ttgagacaat tggacaaaat 360
aaattaattg gcacggcgac tgtagccctg aaggacctga ctggtgacca gagcagatcc 420
ctgccgtaca agctgatctc cctgctaaat gaaaaagggc aagatactgg ggccaccatt 480
gacttggtga tcggctatga tccgccttct gctccacatc caaatgacct gagcggggccc 540
agcgtgccag gcatgggagg agatggggaa gaagatgaag gtgatgaaga cagggttgga 600
aatgcagtca ggggcccctg gcccaagggg ccagttggga cgggtgctga agctcagctt 660
gctcggaggc tcaccaaagt aaagaacagc cggcggatgc tgtcaaataa gccacaggac 720
ttccagatcc gcgtccgagt gattgagggc cgacagttaa gtggttaaca cataaggcct 780
gtggtcaaaag ttacgtctg tggccagaca caccgaacaa gaatcaagag aggaaacaac 840
cctttttttg atgagttgtt tttctacaat gtcaacatga ccccttctga attgatggat 900
gagatcatca gcatccgggt ttataattct cactctctgc gggcagattg tctgatggg 960
gaatttaaga ttgatgttg atttgtttat gatgaacctg gccatgctgt catgagaaag 1020
tggcttcttc tcaatgaccc ggaagatacc agttcaggtt cttaaaggta tatgaaagtc 1080
agcatgtttg tcctgggaac cggagatgag cctcctctg agagacgaga tcgtgataat 1140
gacagtgatg atgtggagag taatttggtta ctccctgctg gcattgccct ccggtgggtg 1200
accttcttgc tgaaaatcta ccgagctgag gacatcccc agatggatga tgccttctca 1260
cagacagtaa aggaaatatt tggaggcaat gcagataaga aaaatctcgt ggatcctttt 1320
gtagaagttt cctttgctgg aaaaaaggtt tgtacaacaa taattgagaa aaatgcaaac 1380
ccagatggga atcaggctgt caatcttcag atcaagtttc cttcagtggt tgaaaaaata 1440
aaactaaca tatatgactg ggaccgtctt actaaaaatg atgtagttgg aacaacatat 1500
ctacacctct ctaaaattgc tgcctctggt ggggaagtgg aagatttctc atcttcggga 1560
actggggctg catcatatac agtaaacaca ggagaaacag aggtaggctt tgttccaacg 1620
tttgaccctt gttacctgaa tctttatgga agcccagag agtacacggg attcccagac 1680
ccctatgatg agctgaatac tggaaagggg gaaggagtgt cctacagagg caggatcttg 1740
gttgaattag ccacttttct tgagaagaca ccaccagata aaaagcttga gccatttca 1800
aatgatgacc tgcgtgtgtg tgagaaatac cagcaaggc ggaagtacag cctgtctgcc 1860
gtgtttcatt gaccacccat gttgcaagat gttggtgagg ccattcagtt tgaagtcagc 1920
attgggaact atggcaacaa gtttgacacc acctgtaagc ctttggcatc aacaactcag 1980
tacagccgtg ctgtatttga tggcaactac tattattact tgccttgggc ccacaccaag 2040
ccagttgtta cctgacttct atactgggag gatattagtc atcgctgga tgcggtgaac 2100
actctcctag ctatggcaga acggctgcaa acaaatatag aagctctaaa atcagggata 2160
caaggtaaaa ttctgcaaa ccagctggct gaattgtggc tgaagctgat agatgaagt 2220
atagaagaca cgagatacac gttgcctctc acagaaggaa aagccaacgt cacagtcttc 2280
gatactcaga tccgaaagct gcggtccagg tctctctccc aaatacatga ggcggtctg 2340
aggatgaggt cggaagccac agatgtgaag tccacactgg cagaaattga ggactggctt 2400
gataaattaa tgcagctgac tgaagagcca cagaacagca tgcctgacat catcatctg 2460
atgatccggg gagagaagag actggcctat gcacgaattc ccgcacatca ggtcttgta 2520
tccaccagtg gtgagaatgc atctggaaaa tactgtggga aaacccaaac catctttctg 2580
aagtatccac aggagaaaaa caacgggcca aaggtgcctg tggagttgcg agtgaacatc 2640
tggctaggct taagtctgt ggagaagaag tttaacagct tcgcagaagg aactttcacc 2700
gtctttgctg aaatgtatga aaatcaagct ctcatgtttg gaaaatgggg tacttctgga 2760
ttagtaggac gtcataagtt ttctgatgtc acaggaaaaa taaaactcaa gaggggaatt 2820
tttctgcctc caaaaggctg ggaatgggaa ggagagtgga tagttgatcc tgaaagaagc 2880
ttgctgactg aggcagatgc aggtcacacg gagttcactg atgaagtcta tcagaacgag 2940
agccgctacc ccgggggcca ctggaagccg gccgaggaca cctacacgga tgcgaacggc 3000
gataaagcag catcaccag cgagttagct tgtcctccag gttgggaatg ggaagatgat 3060
gcatggtctt atgacataaa tcgagtgggt gatgagaaag gctgggaata tggatcacc 3120
attcctcctg atcataagcc caaatcctgg gttgcagcag agaaaaatgta ccacactcat 3180
agacggcgaa ggctggtccg aaaacgcaag aaagatttaa cacagactgc ttcaagcacc 3240
gcaagggcca tggaggaatt gcaagaccaa gagggctggg aatatgcttc tctaattggc 3300
tggaaatttc actggaacaa acgtagtcca gataccttcc gccgcagacg ctggaggaga 3360
aaaatggctc cttcagaaac acatggtgca gctgccatct ttaaacttga aggtgccctt 3420
ggggcagaca ctaccgaaga tggggatgag aagagcctgg agaaacagaa gcacagtgc 3480
accactgtgt tccgagcaaa caccctcatt gtttctgca attttgacag agtctacac 3540
taccatctgc ctgtctatgt ctatcaagcc agaaacctct tggctttaga taaggatagc 3600
ttttcagatc catatgctca tatctgtttc ctccatcgga gcaaaaccac tgagatcatc 3660
cattcaaccc tgaatccac gtgggacca acaattatat tcgatgaagt tgaatctat 3720

```

```

ggggaacccc aaacagttct acagaatcca cccaaagtta tcatggaact ttttgacaat 3780
gaccaagtgg gcaaagatga attttttagga cgaagcattt tctctcctgt ggtgaaactg 3840
aactcagaaa tggacatcac acccaaactt ctctggcacc cagtaatgaa tggagacaaa 3900
gcctgcgggg atgttcttgt aactgcagag ctgattctga ggggcaagga tggctccaac 3960
cttcccatte tccccctca aagggcgcca aatctataca tgggtcccca ggggatcagg 4020
cctgtggtcc agctcactgc cattgagatt ctagtctggg gcttaagaaa tatgaaaaac 4080
ttccagatgg cttctatcac atccccagt cttgttggg agtgtggagg agaaaggtg 4140
gaatcggtgg tgatcaaaaa ccttaagaag acaccaact ttccaagttc tgttctcttc 4200
atgaaagtgt tcttgcccaa ggaggaattg tacatgcccc cactggtgat caaggtcatc 4260
gaccacaggc agtttgggag gaagcctgtc gtcggccagt gcaccatcga gcgcctggac 4320
cgctttcgct gtgacctta tgcagggaaa gaggacatcg tcccacagct caaagcctcc 4380
cttctgtctg ccccaccatg ccgggacatc gttatcgaaa tgggaagacac caaaccatta 4440
ctggcttcta agctgacaga aaaggaggaa gaaatcgtgg actggtggag taaattttat 4500
gcttctcag ggaacatga aaaatgcgga cagtatattc agaaaggcta ttccaagctc 4560
aagatatata attgtgaact agaaaatgta gcagaatttg agggcctgac agacttctca 4620
gatacgttca agttgtaccg aggcaagtgc gatgaaaatg aagatccttc tgtggttggg 4680
gagtttaagg gctcctttcg gatctaccct ctgccggatg accccagcgt gccagcccct 4740
cccagacagt ttcgggaatt acctgacagc gtcccacagg aatgcacggt taggattttac 4800
attgttcgag gcttagagct ccagccccag gacaacaatg gcctgtgtga cccttacata 4860
aaaataacac tgggcaaaaa agtcattgaa gaccgagatc actacattcc caacactctc 4920
aaccagctct ttggcaggat gtacgaactg agctgctact tacctcaaga aaaagacctg 4980
aaaatttctg tctatgatta tgacaccttt accgggatg aaaaagtagg agaaacaattc 5040
attgatctgg aaaaccgatt cctttcccg c tttgggtccc actgcggcat accagaggag 5100
tactgtgttt ctggagtcaa tacctggcga gatcaactga gaccaacaca gctgcttcaa 5160
aatgtcgcca gattcaaagg cttcccacaa cccatccttt ccgaagatgg gagtagaatc 5220
agatatggag gacgagacta cagcttggat gaatttgaag ccaacaaaat cctgcaccag 5280
cacctcgggg cccctgaaga gggccttgc cttcacatcc tcaggactca ggggctggtc 5340
cctgagcacg tggaaacaag gactttgcac agcaccttcc agcccaacat ttcccaggga 5400
aaacttcaga tgtgggtgga tgttttcccc aagagtttg ggccaccagg ccctccttcc 5460
aacatcacac cccggaaaagc caagaaatac taactgcgtg tgatcatctg gaacaccaag 5520
gacgttatct tggacgagaa aagcatcaca ggagaggaaa tgagtacat ctacgtcaaa 5580
ggctggattc ctggcaatga agaaaacaaa cagaaaacag atgtccatta cagatctttg 5640
gatggtgaag ggaattttaa ctggcgattt gttttcccg ttgactacct tccagccgaa 5700
caactctgta tcgttgcgaa aaaagagcat ttctggagta ttgacaaaac ggaatttcca 5760
atcccaccca ggctgatcat tcagatatgg gacaatgaca agttttctct ggatgactac 5820
ttgggtttcc tagaacttga cttgcgtcac acgatcattc ctgcaaaatc accagagaaa 5880
tgcaggttgg acatgattcc ggacctcaaa gccatgaacc cccttaaagc caagacagcc 5940
tccctctttg agcagaagtc catgaaagga tgggtggccat gctacgcaga gaaagatggc 6000
gccgcgtaaa tggctgggaa agtggagatg acattggaaa tcctcaacga gaaggaggcc 6060
gacgagaggc cagccgggaa ggggcgggac gaaccaca tgaaccccaa gctggactta 6120
ccaaatcgac cagaaacctc cttcctctgg ttcaccaacc catgcaagac catgaagttc 6180
atcgtgtggc gccgctttaa gtgggtcatc atoggcttgc tgttctgct tatcctgctg 6240
ctcttcgtgg ccgtgctcct ctactctttg ccgaactatt tgtcaatgaa gattgtaaag 6300
ccaaatgtgt aacaaaggca aaggcttcat ttccagagtc atccagcaat gagagaatcc 6360
tgcctctgta gaccaacatc cagtgtgatt ttgtgtctga gaccacacc cagtagcagg 6420
ttacgccatg tcaccgagcc ccattgattc ccagagggtc ttagtcctgg aaagtcaggc 6480
caacaagcaa cgtttgcac atgttatctc ttaagtatta aaagttttat tttctaaagt 6540
ttaaatcatg tttttcaaaa tatttttcaa ggtggctggg tccattttaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttggaaat tgctaaatag aattcaaaaa 6660
tctctgcac ctgaggtgat atacttcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tagaatagtt agaacaattc ttatttatgc ccacaaccat tgctatat 6780
tgtatggatg tcataaaagt ctatttaacc tctgtaatga aactaaataa aaatgtttca 6840
cctttaaaaa aaaaaaaaaa aaaaaagggg gggccgaacc caatgccta ttggaggggt 6900
atccaaataa tggccgcttt acannnn 6927

```

<210> 858

<211> 1255

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(1255)
 <223> n = A,T,C or G

<400> 858

```

nnnnnnnnnn nnnnnncggg cgatgaagtg tcactatgag gcgctggggg tgcggcgcgga 60
cgccagcgag gaggagctca agaaggccta tcggaagctg gccctgaaat ggcacccgga 120
taaaaatctg gataatgccg cagaagcagc tgaacaattt aaattaatcc aagcagcata 180
tgatgtgttg agtgaccctc aggaaagagc atggtatgat aatcatagag aggccctact 240
taaaggtggg tttgatggcg aatatcaaga tgacagctta gatttgctac gctatttcac 300
cgttacctgt tattctgggt atggagatga tgaaaaggga ttttacacgg tgtatcgtaa 360
tgtttttgaa atgattgcca aggaagaact agaatctgtg ttagaggaaag aggttgatga 420
tttccaact tttggagact ccagagtgga ctatgatacg gtagtccatc ctttctacgc 480
ttattggcag agtttctgca ctcaaaagaa ttttgcattg aaggaagaat atgatacacg 540
acaggcttca aaccgctggg aaaaacgagc catggaaaaa gaaaacaaaa agattcggga 600
caaagcaagg aaagagaaga atgagcttgt ccgtcagctg gtagctttca ttcgtaaaag 660
agataaaaaga gtgcaggcgc atcgaaaact tgtggaagaa cagaatgcag agaaggcgag 720
gaaagccgaa gagatgaggg ggcagcagaa gctaaagcag gccaaactgg tggagcagta 780
cagagaacag agctggatga ctatggccaa tttggagaaa gagctccagg agatggaggc 840
acggtacgag aaggagtgtg gagatggatc ggatgaaaat gaaatggaag aacatgaact 900
caaagatgag gaggatggta aagacagtga tgaggccgag gacgctgagc tctatgatga 960
cctttactgc ccagcatgtg acaaactcgt caagacagaa aaggccatga agaatacaga 1020
gaagtcaaag aagcatcggg aaatgggtgc cttgctaaaa caacagctgg agggaggaga 1080
agaaaatttt tcaagacctc aaattgatga aaatccatta gatgacaatt ctgaggaaga 1140
aatggaagat gcaccaaacc aaaagctttc tgaaaatcag taaattggcc tgggttaaaa 1200
acgagaaggg acgactggca agatcatatc tgcctgcttg ctcaactttca gctgn 1255

```

<210> 859
 <211> 2065
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(2065)
 <223> n = A,T,C or G

<400> 859

```

ncttgtaact ttctttcttc ctccctctac acaactaact tegtctcttc tttctccaaa 60
caactctctc tttatctctt ttgacggcag cctctctcct taactctccc ctcccaccca 120
actctccaaa gggaaaccct ttccctatca catgtctcg ccaaacaacc atatttcccc 180
tgaacagcca ggtgaaccct tcccaattgg tctctatttg ggcattaatg tctgaaccca 240
tatcgagcag caattttact gcaggaacat gtccattcat tgcagccaac atcaggggag 300
aaatacctag tttactccca gtccttgaat taatttctgc ccagcatta agcagaatct 360
taatgatatt aacatatcct ccagacgcag ctgactcag tgggtgataa tcagatacgt 420
tcctatgttc tttatttgca cctcgagcca gcagcaagtc taccacctcc tgacgtccac 480
cagaacatgc caatgaaagc ggagtatcct tagttcgttc agactgtgct tctatatctc 540
cacctttatc caaaaggatt tcaacaactc caacatgcc tgcgtgtgct gccaggatta 600
gtggtgtgaa accttttttg tctctgtgtt caattttggc atcccgtgca atgagcacag 660
atacaagttc ttcatgacca cctgcacaag ctagtgttaa tgcgtgtgca tgattgctct 720
cagtatgtgc atcaatgtca actgaaggat acacaggagg catcgattgg gaagccacat 780
tgcttgtagt ctgcgaacag gattcaggtg taagacactc tgtggtctga gaagaactgt 840
tggaaccagt gggcactctg gtactcacag ctgctatcag gtcatacaga gtgtcggtaa 900
gcgtctgagc tggagttgca accattagtc catctgggtc ttgaactaac agcccctgat 960
catgtccagt aatagcaatc tgaggctgtc ctacaatctg ctgattacct gatactttct 1020
gaagtcaag agaatttgtc ccattagaac ctaagtcact ggaaaagtta cactgtggag 1080
atgataaagg ctggactggg acaaaatcaa tctgttctgc cgatggtgga gactgttgct 1140
catcatcaac atcattatct ttaataaga ttgtgtcaac ctgaggtaac tctgaaaagt 1200
gatctctggg gagactacca tctccttccc tttctgggaa gactcctcta tgagagcact 1260
gttggtgtag agacactgtg tctttctgac ctttggtttc caagtattct ttggtaaatt 1320
gctgctgtgt tttcatctgc aactgccttt ccactttctg cagttctttc aatattttct 1380

```

```

tcttctctctg gacttgctct tctctgttct ttttaagttc ttctatctta tctttgttca 1440
gagggtcacc ttgaattaac tccagtgact taagctgtgc tttttcaata gcactaattc 1500
tttgctccag ttcatcagc ttgccttcag tctcctctac tatgcactcc aaaggctggg 1560
atgggtgaaa agatggcagt aggtcctgat ctgctacctg gagggaaactg gacttctgct 1620
tggatgtacc tttttgcaact cctaaaaggg caggagagtt ctcctgtgaa gttctgtcag 1680
gttcctgggg aggtacaacc atggcaagtg tatgcgttgg cacacgtggc acctgagact 1740
gatcttgaga aggtggaggg agctgagaca catctgtggg gggaactgac agaacattat 1800
ttggataatc caacagataa gaaactacat tagtatggcc accctttgca gcttcaatga 1860
gcattgttga accatccttg agtcgatgag tagggtcagc cccatgacca agagaagctc 1920
aacaactgcc aggtggcctc ctgcacatgc cagcgacact cctgtatgat cattattggc 1980
tgtagccctg ttaacattgg cacctttgct aataagaaac tgcacagtgc acaaatgacc 2040
agctcttgcc ggacgcgtgg gtcgn 2065

```

<210> 860

<211> 628

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(628)

<223> n = A,T,C or G

<400> 860

```

nntggcggcc gcccgggcag gtacatgtaa aatcttactg cagttttatg tttttaatag 60
tcaaaataga atgtataatc ttgatgatgt ttataaatca tcaaatgcc tttgggggtgt 120
aaaaatgggt tcttgagcag cagtgtctaa tgattccatc acaaatttgt tataaagcca 180
aactccatt gaaagtgtca ctttatgctt aataggaaat cgttatgatt aaagcatcaa 240
ggaagcaaat ataaagttta atgaaaatcc aaggggaagt tctaaattgc aaaacttggc 300
acttatctac agtatattga aaaataacac caccggtatt caaacctacc taggaatata 360
tcaaaataac ctgttaatta agtgttctta gaaaggggag tgggggcaag aaagatgatg 420
tatgcacatg gcgaaaagat cagatgggtac agaaagggtat aaaaacttgg tcccttccct 480
cctaccctaa tactcctctc caaaagtaac cagtttcaag tgtcttgtag tcacaggaaa 540
acaatttttt attttttatc agcaaatttg tactttaaaa atttcacatt aatagaatca 600
gactatatat actcttctgt accttgcn 628

```

<210> 861

<211> 1116

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1116)

<223> n = A,T,C or G

<400> 861

```

nagtcgtata gaccaccttg tttgttgttg atgggtagac atgaagcaga tttatgtatg 60
ttgtctctgc acgcatgtac tatagatgtg ccatcataca tattgtgtgg gtccggaact 120
ataattgtgc cttgcagcac gcccagtggg ggacccacag tgtggacctc ttttttgag 180
caaattggtat atttatttaa actccccgt gctttagggt gcaccaccac gttgtgtgca 240
aattcgccac cccaggtgca agtttaggt ctgccgagcg cgccaatctc ctgggggttt 300
cgttctgttg gccttccttg tgtcctttgg tgatattggt ccatctgggt cgtcagtact 360
ggtttcgggc gccttgccaa tcctgttttt gctcctgtct gtttttcaga ttcttcttct 420
tcatctgaac tgctttctgc tttcttggtt ttattcttag gaactttctt tgggtggctgc 480
agattaattc ctgcatctgc tgtccagtca gagtaatcac tggagtagtc actagaactg 540
ccatcactgt gccatgctct ctcttcttct tcggatgttc caccactgac agcaactact 600
tcgccttcac ctgaagaact actgccattt tctatctctt ctgagggctc aggagtctct 660
tccaatgcag atcttgtagc ataattgtgt tgatttctct gttgcttttt ggattctcca 720
agatccagga aatgctcatg agcatgattc tttgagacag tgggtatttt attctctttt 780
ggaacagtta agtgttttct tttctcttct gacctgtaag tctttatttc ttcttctccc 840

```

```

tttgagttc tccattcttc ttgcctactg gctacaccag ctgatagctc gggtagtacc 900
acccttcgac tccaagctac cagatcccgc tctgtggcta tttcacttct tgggtgcgttg 960
ctgtgcattt gccgtacacc ttcaatttgt ccactacgtc ttagtcctac gtttgggtgg 1020
gaatgaacct ctgaggtaga acttatggag cctctactta aacggctggg attactgata 1080
cctgcttcac cagaacgtct caggtctgtg gaannn 1116

```

```

<210> 862
<211> 2100
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(2100)
<223> n = A,T,C or G

```

```

<400> 862
gggagaagca gtgaccaggt gccaggccca cctgctgata cccagccaag cgcttcacac 60
cctgggtggt agagtctgaa accggatgtt ccagggtcac gcagaacttg gaagacagag 120
aagttttgaa tgggtgtacag acagaactac taacttcgcc aagaactaag gacacattga 180
gtgatatgac aagaacagtg gagatttctg ggggaaggagg cccattggga atacatgtag 240
tgcccttctt ttcactctct agtggaagga ttctaggact cttcatccga ggcattgaag 300
acaacagcag gtccaagcgg gagggactat ttcacgaaaa tgaatgtatt gtaaaaatca 360
acaatgtgga tctcgtagac aaaacctttg ctcagggtca agatgtcttc cgccaggcaa 420
tgaaatctcc aagtgtgctc ctccacgtgc ttctccaca aaaccgtgaa cagtatgaaa 480
agtcagtcac tggctctctt aacatttttg gtaataatga tggcgttttg aaaaccaaag 540
tgccgcctcc tgtccatgga aaatcgggac taaagacagc aaatctcaca ggaaccgata 600
gtcctgaaac agatgcatca gcttccctgc acaaaaacaa gagtccccga gtaccaaggc 660
tgggaggaaa accatcctct cctcactct cgcctctcat gggatttggc agcaataaaa 720
atgcaagaaa aattaagatt gacctaaaga aaggccctga aggacttggg ttcactgtgg 780
ttaccagaga ctcttcata catgggtccg gtccatttti tgtaaaaaac attttacca 840
agggagcagc tatataagat ggccgcctac aatcaggggg cagaattttg gaggtaaatg 900
ggagagatgt caccggacga acccaggaag agcttgtggc catgctcagg agcaccaagc 960
agggggagac agcatcgctg gtcattgccc gccagaagg acattttctg ccccgagagt 1020
tggatggtcg tctgcgaatg aatgaccagc tgattgcagt taatggggaa tctcttttgg 1080
gaaagtccaa ccacgaagct atggaaacac ttaggcggtc aatgtccatg gagggaaaca 1140
tccgagggat gatccagttg gtgattctga ggaggccaga gagaccaatg gaggatctg 1200
cagagtgtgg ggcattttcc aagccatgct ttgagaactg tcaaatgct gtaaccacct 1260
ctaggcgaaa tgataatagt atcctgcac cacttggcac ttgcagtcca caagacaaac 1320
agaaaggtct attgctgcc aatgacggat gggccgagag tgaagttcca cttctccaa 1380
caccacattc tgcctcgga ttgggcctcg aagattacag ccacagctct ggggtggatt 1440
cagcagtata tttccagat cagcacatca acttcagatc tgtgacaccg gccaggcagc 1500
ctgaatcaat taatttgaaa gcctcgaaga gcatggacct tgtgccagat gaaagcaagg 1560
ttcactcatt ggctggacaa aaatcggaat ctccaagcaa agattttggg ccaactctgg 1620
gtttgaaaaa gtccagctcc ttggagagtc tgcagactgc agtggccgag gtcagggaaga 1680
atgacctttc ctttcacagg ccccgccgc acatggttcg aggccgaggc tgcaatgaga 1740
gctttagagc agccattgac aaatcctacg atggacctga agaaatagaa gctgacggtc 1800
tgtctgataa gagctctcac tctggccaag gagctctgaa ttgtgagtct gccctcagg 1860
ggaattcgga gctagaggac atggaaaata aagccaggaa agtcaaaaaa acgaaagaga 1920
aggagaagaa aaaggaaaag ggcaaattga aagtcaagga gaaaaagcgc aaagaggaga 1980
atgaagatcc agaaaggaaa ataaagaaga agggcttcgg cgccatgctg agatttgga 2040
agaagaagaa ggataagggt ggaaaggctg agcagaaagg tactctgaaa cannnnnnnn 2100

```

```

<210> 863
<211> 555
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```


<222> (1)...(555)

<223> n = A,T,C or G

<400> 863

```

actaatgtta ttaatgtggc tgacaagtaa ttagaaaact ggaaattaaa ttttacaac 60
atTTTTaaaa tcgctacaat taaaaaaatt caagatgggt acattatgaa tatgaatgaa 120
atgtcattag cgacttcgtt aaatgtatat gtaattctat attttcccca aaaccacat 180
tttatgaaga atatttattt atttatttat ttttgttttt tgagatggag tctcgtctctg 240
ttgccagact ggagtgaat ggtgcgatct cgcctcactg caacctccac ctctgggtt 300
caaacgattc tcctgcctca gcctcccgag tagctgggac tacaggcacc gccaccacgc 360
ccggctaatt tttgtatttt tagtagagac agggtttcac catgttagcc aggatgggtct 420
ccgtctcttg acctcgtgat ccaccgcct tggcctcca aagtgcgggg attacagacg 480
cgagctaccg tgcccaagccg caacattgat tttttaagta aagtcgtgaa cgnnnnnnnn 540
nnnnnnnnnn nnnnnn 555

```

<210> 864

<211> 1115

<212> DNA

<213> Homo sapiens

<400> 864

```

accagaaagt gtgcacagga ttgggaatgt aaagatcatc aatgctaact cctgaccttg 60
agagctgtac aaacttattg gacacagaca agtggaaacc cgaaaagaga aagcagtcaa 120
ttctatattt ggaggaagat catgaaaggt ttacatagg aaggatttcc cctttgggtca 180
atcagaaaag catgaattct atcaatagta gaaatctata aatcagtcta actatatact 240
agagaaaaca cacagaaaat gcaagtaagt ataaatatgt ccagtaattt cttaacatta 300
tctttttact aataaatata atgggagtaa aaacatcaat ctacataag tgctaagagt 360
tttcaatata aaatattaaa taaacaagtg atatgcaaac tatggtatta tacctatata 420
agttattatt taaagataca tgaaatgcaa ggtgatagaa gacaagaagg aatagttttc 480
cctaataatta actacatca ttggagattc aagtaaaagt gttcacatag ttaaccaag 540
cattcattta atccaaacca atattcttcc attcacccea caaatactgt taccacaaca 600
ctgtctactt tatgtcagat gtcccaggct tcttctagat atggaagaca cagcagtga 660
caaagtcctt gttctagtgt gggaaacaag caatgcaggt tgagtccta atgtgaaaa 720
tccaaaatcc aaaatatatt aagtccaac atggcaccac aagtggtaaa ttccacacat 780
aaatacttaa cacaaacttt gtttcatgca caaaattatt ttaaaacatg tataaaatta 840
acttaaggcc atgtgtataa ggtatatata aaatgtaaac aaatttcatg tttagacttg 900
ggttccatcc ccaacatag tgcaaatatt ccaaaatcca aaaaatccaa aatcttaaac 960
acttctggtc ccaagcattt cagataaggg atactcaatc tctaatacaa gatgtatatg 1020
catgtgtgta agtatgcaca tgtataactt gtcagttagt gataggtgct gtaaagaaaa 1080
ataaagggaa aagtgcata gaagtgccat actcc 1115

```

<210> 865

<211> 1116

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1116)

<223> n = A,T,C or G

<400> 865

```

nagtcgtata gaccaccttg tttgttggtg atgggtagac atgaagcaga tttatgtatg 60
ttgtctctgc acgcatgtac tatagatgtg ccatcataca tattgtgtgg gtccggaact 120
ataattgtgc cttgcagcac gccagtgagg ggaccacag tgtggacctc tttttggag 180
caaatggat atttatttaa actccccgt gctttagggt gcaccaccac gttgtgtgca 240
aattcggccag ccaggtgca agtttaggtt ctgccagcgc cgccaatctc ctgggggttt 300
cgttctgttg gccttccttg tgtccttttg tgatattggt ccactcgtgt cgtcagtaact 360
ggtttcgggc gccttgccaa tctgtttttt gtcctgtctc gtttttcaga ttcttcttct 420
tcacttgaac tgctttctgc tttcttggtt ttattcttag gaactttctt tgggtggctgc 480
agattaattc ctgcactctgc tgtccagtca gagtaatcac tggagtagtc actagaactg 540

```

```

ccatcactgt gccatgctct ctcttcttct tcggatgttc caccactgac agcaactact 600
tcgccttcat ctgaagaact actgccattt tctatctctt ctgaggggtct aggagtctct 660
tccaatgcag atcttgtacg ataattgtgt tgatttgtct gttgcttttt ggattctcca 720
agatccagga aatgctcatg agcatgattc tttgagacag tgggtatttt attctctttt 780
ggaacagtta agtgttttct tttctcttct gacctgtaag tctttatttc ttcttctccc 840
tttgagttc tccattcttc ttgcctactg gctacaccag ctgatagctc gggtagctacc 900
acccttcgac tccaagctac cagatcccgc tctgtggcta tttcacttct tggtagcttg 960
ctgtgcattt gccgtacacc ttcaatttgt ccaactacgtc ttagtcctac gtttgggtgg 1020
gaatgaacct ctgaggtaga acttatggag cctctactta aacggctggg attactgata 1080
cctgcttcac cagaacgtct caggtctgtg gaannn 1116

```

<210> 866

<211> 628

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(628)

<223> n = A,T,C or G

<400> 866

```

nntggcggcc gcccgggcag gtacatgtaa aatcttactg cagttttatg tttttaatag 60
tcaaaataga atgtataatc ttgatgatgt ttataaatca tcaaagccc tttgggggtgt 120
aaaaatgggt tcttgagcag cagtgtctaa tgattccatc acaaatttgt tataaagcca 180
aactcccat taaaagtgtca ctttatgctt aataggaaat cgttatgatt aaagcatcaa 240
ggaagcaa ataaagttaa atgaaaatcc aagggggaagt tctaaattgc aaaacttggc 300
acttatctac agtatatttga aaaataacac caccggtatt caaacctacc taggaatatc 360
tcaaaataac ctgttaatta agtggtctta gaaaggggag tgggggcaag aaagatgatg 420
tatgcacatg gcgaaaagat cagatggtac agaaagggtat aaaaacttgg tcccttcctc 480
cctaccctaa tactcctctc caaaagtaac cagtttcaag tgtcttgtag tcacaggaaa 540
acaatttttt attttttatc agcaaatttg tactttaaaa atttcacatt aatagaatca 600
gactatatat actcttctgt accttgcn 628

```

<210> 867

<211> 628

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(628)

<223> n = A,T,C or G

<400> 867

```

nntggcggcc gcccgggcag gtacatgtaa aatcttactg cagttttatg tttttaatag 60
tcaaaataga atgtataatc ttgatgatgt ttataaatca tcaaagccc tttgggggtgt 120
aaaaatgggt tcttgagcag cagtgtctaa tgattccatc acaaatttgt tataaagcca 180
aactcccat taaaagtgtca ctttatgctt aataggaaat cgttatgatt aaagcatcaa 240
ggaagcaa ataaagttaa atgaaaatcc aagggggaagt tctaaattgc aaaacttggc 300
acttatctac agtatatttga aaaataacac caccggtatt caaacctacc taggaatatc 360
tcaaaataac ctgttaatta agtggtctta gaaaggggag tgggggcaag aaagatgatg 420
tatgcacatg gcgaaaagat cagatggtac agaaagggtat aaaaacttgg tcccttcctc 480
cctaccctaa tactcctctc caaaagtaac cagtttcaag tgtcttgtag tcacaggaaa 540
acaatttttt attttttatc agcaaatttg tactttaaaa atttcacatt aatagaatca 600
gactatatat actcttctgt accttgcn 628

```

<210> 868

<211> 2898

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(2898)
 <223> n = A,T,C or G

<400> 868

```

tcgaccacag cgtccgggag ggacaaccgc tgggcgggag ccaagcgtgc ccgtgcgctg 60
gtgaggtggc gtccgttcta cccggctcgt cccgttccgc gccatgcaga gccagctctc 120
tggcacctgg ctgctctgat ctggtctcag cgcggaggga gcagagggag tccatggagg 180
atccctccga gcccgaccgg ttggcgctcg cggacggcgg gagcccgag gaggaggagg 240
atggggagcg ggagccgctg ctaccgcgga tcgcctgggc ccaccgcgg agaggcgccc 300
caggcagcgc cgtgaggctg ctggacgctg ccggggagga gggcgaggcc ggcgacgagg 360
agctgcccc cccgcccggg gacgtggggg tctcccggag ttcccccgc gagctggacc 420
ggagccgccc cgcggtttca gtaactattg gtacttcaga gatgaatgca ttcttggatg 480
acccagaatt tgcgtgatt atgctgagag cagagcaagc aatagaagtt ggaatttttc 540
cagaaagaat ctctcaaggt tcaagtggaa gttactttgt gaaggatcct aagaggaaaa 600
ttattggtgt gtttaaaccc aaatcagaag agccttatgg tcaactcaat ccaaaatgga 660
ccaaatatgt ccataaggtc tgctgccctt gctgctttgg ccgaggctgc ctgattcccta 720
atcaggggta cctttccgaa gcgggtgcct atcttgtgga caacaagctt catctgagca 780
ttgtacctaa aacaaagggt gtttggcttg tcagtgcagc atttaactat aatgcgattg 840
accgtgcaaa atcaagaggc aaaaagtatg ctttagaaaa agtgccaaaa gtgggtagaa 900
agtttcatag gatgcagctc cctcctaaga ttggttcctt tcagttattt gttgaaggtt 960
acaaggaggc tgaatatggg cttaggaaat ttgaagctga ccctttgcct gagaatatta 1020
gaaaacaatt tcagtcacaa tttgaaagat tagttatttt ggattacatc atcagaaata 1080
cagacagggg caatgataat tggttagtca gatacgaaaa gcagaaatgt gaaaaggaaa 1140
ttgaccataa ggaatcaaaa tggattgatg atgaagaatt ccttattaaa atagctgcaa 1200
ttgataatgg tctagcattt ccttttaaac atcctgatga atggagagca tatccatttc 1260
actgggcttg gcttcctcaa gcaaaagttc ccttttctga agaaataaga aatttgattc 1320
tactatata tctgacatg aactttgtgc aagatttatg tgaagatctc tatgaacttt 1380
ttaagactga caaaggattt gacaaagcca cttttgaaag tcagatgtct gtgatgagg 1440
gtcagatctt aaaccttact caggcattga gagacgggaa gagtcccttc cagctagtac 1500
agataccttg tgtgattgtg gaacgcagtc aagggtggaag tcagggtcgg attgtccacc 1560
tgagcaatcc ctttaccag actgtcaatt gcaggaagcc attttttccc tcctggtagt 1620
aatgtcaga gtaagagaaa caaactgttt agaattatca tgtttttaaa acatcatagt 1680
aatataaatc tgctgttagg agctccagtt gctaaaacct caatttaagt ctttaaaagg 1740
ttgtattttg aatgtaacca aaagtttaca gttttttgtc caaatattaa atttctattt 1800
cagggagaaa gtgctatata tcctatatgt tatttttgta gaaaatttgt attttatgtt 1860
gttggttagt taaaaggtaa ttttacacat gctggaatga ctgtaattac tctagaattc 1920
caagtagaat acaataactt ttaatatga gaagaatgtt catgctaatt cttcttacat 1980
tacaaaaggc ctttgaggat gcctacgtct gaaattgtct ttacgaactt taataaaata 2040
gttagcta at agaaaaacag gtaagaataa agcaatgttg ccttaatttc aaaagctgct 2100
attttagaat ttgaataagt actcctaaag tgaccattat tagggaccag aaaattatat 2160
cttggttaag taatagagga ccatttttgt ttttgtactt gagaatattt ttggtgaatt 2220
actttgttgt agtgaggaaa aaacctaaga aatttcccct ttttttaaaa aaatggaaat 2280
attcaattga gacttgaggg gaataataga aaattaaggt agatcccaa tattttgga 2340
tacaaaatt gccttaaaaa ttcccttctg tttcttacat gggatcaaat acttgagatt 2400
agtacttcag agtactggcc ttgttcaatt tagtacttca attagtatta aacttcacta 2460
aaaagtaaac catactcaa attgtatatt ggattgcatt ttggggtcct aggtcatagc 2520
ttcttcaaaa ttattatgat tgtactattg tacttgaaat tacagatgtt attataatta 2580
cagtc aaatg tagactatca ggccaaatta aaggggagca tggcaagata accataaagt 2640
catttatatt tgattttgaa atgtattttt ggactttaat tttgaaatc atccatatgt 2700
ctgacattaa tgggaatttg taacattgtt aatgcaccaa agtggaattt aattcaattg 2760
atgaaagatg tggattttac agaagcaaga agtttcattt ccttganggc taaaaccaat 2820
gtcacacttg gggctaacng ggtaatttgt ggccaaggcc tttgggttcc aagctacaac 2880
ctggggttgg nnnnnnnn

```

<210> 869
 <211> 2898
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(2898)
 <223> n = A,T,C or G

<400> 869
 tcgacccacg cgtccgggcg ggacaaccgc tgggcgggcg ccaagcgtgc ccgtgcgctg 60
 gtgaggtggc gtccgttcta cccggtcgct cccgttccgc gccatgcaga gcccagtctc 120
 tggcacctgg ctgctctgat ctggtctcag cgcggaggga gcagagggag tccatggagg 180
 atccctccga gcccgaccgg ttggcgtccg cggacggcgg gagcccggag gaggaggagg 240
 atggggagcg ggagccgctg ctaccgcgga tcgcctgggc ccaccgcgg agaggcgccc 300
 caggcagcgc cgtgaggctg ctggacgctg ccggggaggga gggcgaggcc ggcgacgagg 360
 agctgccccct cccgcccggg gacgtggggg tctcccggag ttcccccgc gagctggacc 420
 ggagccgccc cgcggtttca gtaactattg gtacttcaga gatgaatgca ttcttggatg 480
 acccagaatt tgctgatatt atgctgagag cagagcaagc aatagaagtt ggaatttttc 540
 cagaaagaat ctctcaaggt tcaagtggaa gttactttgt gaaggatcct aagaggaaaa 600
 ttattggtgt gtttaaacc aaatcagaag agccttatgg tcaactcaat ccaaatgga 660
 ccaaatatgt ccataaggtc tgctgccctt gctgctttgg ccgaggctgc ctgattcccta 720
 atcaggggta cctttccgaa gcgggtgcct atcttgtgga caacaagctt catctgagca 780
 ttgtacctaa acaaaagggt gtttggcttg tcagttagac atttaactat aatgcgattg 840
 accgtgcaaa atcaagagcg aaaaagtatg ctttagaaaa agtgccaaaa gtgggtagaa 900
 agtttcatag gataggactc cctcctaaga ttggttcctt tcagttatgt gttgaagggt 960
 acaaggaggc tgaatattgg cttaggaaat ttgaagctga ccctttgcct gagaatatta 1020
 gaaaacaatt tcagtcacaa tttgaaagat tagttatgtt ggattacatc atcagaaata 1080
 cagacagggg caatgataat tggttagtca gatacgaaaa gcagaaatgt gaaaaggaaa 1140
 ttgaccataa ggaatcaaaa tggattgatg atgaagaatt ccttattaaa atagctgcaa 1200
 ttgataatgg tctagcattt ccttttaaac atcctgatga atggagagca tatccatttc 1260
 actgggcttg gcttcctcaa gcaaaagtgc cttttctga agaaataaga aatttgattc 1320
 taccatata tttctgacatg aactttgtgc aagatttatg tgaagatctc tatgaacttt 1380
 ttaagactga caaaggattt gacaaagcca cttttgaaag tcagatgtct gtgatgaggg 1440
 gtcagatctt aaaccttact caggcattga gagacgggaa gagtcctttc cagctagtac 1500
 agataccttg tgtgattgtg gaacgcagtc aagggtggaag tcagggtcgg attgtccacc 1560
 tgagcaattc ctttaccag actgtcaatt gcaggaagcc atttttttcc tcctggtagt 1620
 aaatgtcaga gtaagagaaa caaactgttt agaattatca tgtttttaaa acatcatagg 1680
 aatataaatc tgctgttagg agctccagtt gctaaaacct caatttaagt ctttaaaagg 1740
 ttgtattttg aatgtaacca aaagtttaca gttttttgtc caaatattaa atttctatgt 1800
 caggggaagaa gtgctatata tcctatatgt tatttttgta gaaaatttgt attttatgtt 1860
 gttgttaggt taaaaggtaa ttttacacat gctggaatga ctgtaattac tctagaattc 1920
 caagtagaat acaataactt ttaatatgtg gaagaatgtt catgctaatt cttcttacat 1980
 tacaaaaggc ctttgaggat gctacgtct gaaattgctc ttacgaactt taataaaaata 2040
 gttagttaat agaaaaacag gtaagaataa agcaatgttg ccttaatttc aaaagctgct 2100
 attttagaat ttgaataagt actcctaaag tgaccattat tagggaccag aaaattatat 2160
 cttggctaag taatagagga ccatttttgt tttgtactt gagaatattt ttggtgaatt 2220
 actttgtgt agtgaggaaa aaacctaaag aatttccct ttttttaaaa aaatggaaat 2280
 attcaattga gacttgagg gaataataga aaattaaggt agatcccaa tattttggaa 2340
 taccaaaatt gccttaaaaa ttccctcttg tttcttacat gggatcaaat acttgagatt 2400
 agtacttcag agtactggcc ttgttcaatt tagtacttca attagtatta aacttcacta 2460
 aaaagtaaac catactcaa attgtatatt ggattgcatt ttggggctct aggtcatagc 2520
 ttcttcaaaa ttattatgat tgtactattg tacttgaaat tacagatgtt attataatta 2580
 cagtcaaatg tagactatca ggccaaatta aagggagca tggcaagata accataaagt 2640
 catttatatt tgattttgaa atgtatttt ggactttaat tttgaatatc atccatatgt 2700
 ctgacattaa tgggaatttg taacattgtt aatgcaccaa agtggattta aattcaattg 2760
 atgaaagatg tggattttac agaagcaaga agtttcattt ccttganggc taaaaccaat 2820
 gtcacacttg gggctaacng ggtaatttgt ggccaaggcc tttggtttcc aagctacaac 2880
 ctggggttg nnnnnnnn 2898

<210> 870
 <211> 238
 <212> DNA
 <213> Homo sapiens

<400> 870

```

ccgggcaggt acatgttctt tgttaagtgc caacagtatg tatactacac tatgtagaag 60
aaaaataaag aatttgaaat ctgccgaact aagtttactg gtgctaactg ttaactggta 120
tcttcgcttc cccctatgag ctgaaaaatc aggtattatt gagtatcaca aatgcaagtt 180
gcctcagctc ctacagcata agaaaagacc aaacttttta ttttgttaaa tctgaagt 238

```

<210> 871

<211> 744

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(744)

<223> n = A,T,C or G

<400> 871

```

ggtatagact cctccttaga ggtgtctagc agtaggaaat atgataagca aatggccgtg 60
ccttcagaaa atacaagcaa gcaaatgaat ctgaatccta tggattcacc tcattcccct 120
atatcccttc tggcaccac actcagccct cagccacgag gtcaggaaac agagagtttg 180
gaccacccat cgggtccctgt gaatccagcc ctttatggaa atggactaga actccagcag 240
ttgtctactc tggatgacag aactgtcttc gtaggccaaa gactgcctct catggcagag 300
gtcagcgaga cagccttata ttgtgggatt aggcctcga acccgagtc atcagaaaag 360
tggtggcata gttattgtct cccaccagat gatgatgctg agttcaggcc tccagagctc 420
cagggtgaga gatgtgatgc caaaatggag gtaaaactcag agagcactgc attgcaaaga 480
ctcttagcac aacctaaaca acggttttaa atctggcaag acaaacagcc ccagttgcag 540
ccactccact tccttgacct attgcctcta tcacaacaac ctggagacag ttggggagaa 600
gtgaatgacc catatacctt tgaagatggt gacataaaat acatctttac agccaacaag 660
aaatgcaaac aagggacgga gaaagattcc ctgaaaaaga ataagtcaga ggatggattt 720
ggtcctgccc gggcgccgcg tcnn 744

```

<210> 872

<211> 4877

<212> DNA

<213> Homo sapiens

<400> 872

```

aggggggttt gggggggcct tttttttttt aaccccactt gaaaaaaggg ggttttttcc 60
aaccggattt atttgggtta cccccgggtt tttcccttcc caaggttttt aaaaaagggc 120
ccaggggggg gggtaaaata tccccctttg ggggaaattg gggccccccc cggggggggg 180
gggccttttt ttttttttta aatttttttt tttttttttt tttttttttt tttttttttt 240
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300
tttgatggtt ttcaatgttt tatttcacaa attgttcaga tttgttcata aaagatatgt 360
tacaggaaca ttttagaaat caaacagtt ctactgaaac aattgcaaca acgtggcccc 420
tgttcatgca aagcacaaaa aacattttaca ataaaacttt gtacacagga agtagcaaaa 480
tacatcattt ttcatagaaa aaagcacaca cataaactgc gggctgagtg agcctacaga 540
caatatgaga aaccagcaca cgctttggaa tacggtaggg caaaactcct aagggaagccg 600
aaaatgttca tcctgtgggc aggagagcca ggaacgccgt tggcttggtt caagatcttt 660
ttaaacacag ggtaagtgtt ggtagcacga ggggcctcta ttccacacac aggagaggtg 720
gtgctagggg cagggttat catttatagt cttgtttcca ttttctgaag acaaatattc 780
cagtttcaaa atgtttgttg ggatgataaa gacagccagg tccatggccg ggcgcagtgg 840
ctcatgcctg taatcccagc acttcgggag gccaaagggtg gtggatcacc tgaggtaagg 900
agttcgagac cagcctggcc aacataatga aaccccatct ctactaaaaa tacaaaaatt 960
agccgggcat ggtagctcac gcctgttgcc caagggtactt gggaggctga tgcatagaga 1020
ttgcttgaac cggggaggcg gcagttgcaa tgagcagaga tcacgccact gcactctacc 1080
ttgggcaaca gagtgaact tggctcggg aaaaaaaaaa aaaaagacag ccaggctctg 1140
ctctgggcaa ggactttcta tcctgtcagg aagaccaggt gaaggaggca ttaaggaacc 1200
cggggacttt atttttaaat gatgggttca actcacactg gaagtttcaa gtctcccttg 1260
agtgggatgc tttggaagcg agccactgg gatcgctctg gacccttcac taattctgca 1320
aacccacag ggcgatctaa tttatcttgc agacacagac acagccacaa aagtccagca 1380

```

gcagagcacc	cagcaccag	aagtttccca	gatgtttggt	ggtaactgga	ctcacgacct	1440
gacaggctga	ccgaattctt	cctctccgac	atttggggct	gaggagtcag	tacctatgaa	1500
ttacgactag	actacaatgc	acaaagcacg	tagtcctgtg	aatttttagct	cagtcaagct	1560
aagagttgaa	ctgcttttta	ccaactcctt	aaaggggtgg	gtttttgttt	tgttttaaac	1620
ctattttacct	tcagattctg	cattttattag	aaaggcaatc	aaagaaagaa	ggcatcacct	1680
aggtgcccag	gtagaatttc	ttgtccagtc	tacagtatct	tagtttttga	ctttctgcta	1740
gttctttcac	ctaagaaata	ttttgaatca	aatttgaaac	tagcattcac	caaagtgatc	1800
tattggctgg	cccgggtgga	gagagtgga	ttttcacctt	ctgcaaaaaa	atgctattta	1860
caaaagggta	cttcattttca	ctgtgggctt	ttggtctggg	ctcatgaagc	actttttatag	1920
agtgatggca	gccagggtgt	actacactcc	ttggcgcttc	gggaacgttt	ggcaagagtc	1980
gtttcacgaa	aacaggaaaa	gagatccttc	tagtgtattc	ccatctctcg	ctgtcatgag	2040
gccacagacg	gtttcataac	cacaaaactga	gctgctaacc	tcagttagga	atgtaccaa	2100
gactccattc	ctcccacggc	tgaaaaaata	ggcatcggg	tgcgtgggga	atctgcacat	2160
ttatttgtca	ttttttaaaa	gcagcaaaga	gcaggccttc	tttggtgtgt	ctcagacatc	2220
tcgtctcagt	ggaaccttac	gagaccagga	tttaagactt	gggcttcaaa	caggttcgct	2280
tgcaaagaaa	agtcctgggt	gtgaaccagg	acacgtaaac	cagtcagagg	caggggtgga	2340
gccacaatgg	gtagggggta	aagaaagggt	cccgatcctt	agtcctcaat	gggaccaaag	2400
gtcacggcag	aaaacagggtg	ggccatgaag	atgaagggcc	tgacaaagac	aagatacatc	2460
tctgaagtga	ctgctgaact	ctacataaac	cagcactgct	gtgtatagag	ccatcctgaa	2520
tgcggccatt	gaaggggggc	tgtggcgggc	cgccagcaag	gacacgtgcc	agggcgaggc	2580
cggggtctct	cataccgcga	gccctcttac	tctagcccat	ttgtctgtct	gaccagcaaa	2640
cattaaaacc	attttcctct	attggtaggg	acggactgtg	ttttttattt	ttaaaatact	2700
accttctact	tcattcctga	aactcattgg	cgcttgctca	aaaggcctct	tccgacgcgc	2760
tgaatgcttc	acaattgtga	gcttcaaattg	gtttgttctt	ttggcaggga	ggttgaaatc	2820
aacttctctc	accaacagaa	gaacacatag	caaggacat	tttgggcaac	tgtccccttt	2880
aagagacagc	tcagatctct	aaaggagaga	ggacgtccag	atggagacc	ccgggcccc	2940
gcaggatcag	gcaccaggga	gtccggctga	gcaccttggg	atgctgttgc	ttcagttagg	3000
ggatgagatg	tcacctcacc	cacaggccac	aaagtgatgg	acactgaaca	tcagtcaaat	3060
gaagtcttct	gactctccat	ataccgcga	atgacaaaat	aaaaataaaa	gcaaaacccc	3120
gaagccctcc	tgaagacgcc	ccttctcccc	tgggtgctga	aattcactgc	ctgacagcaa	3180
agatccggaa	ggcctttcca	tcccaggagg	tccccaggct	ttcagactga	actccattcc	3240
tgagcgagcc	cacgtaggctc	ttctttttat	ccacgggcat	cacgtccacg	tcacccccac	3300
tctogttgct	gatgactccc	gcgtgcaagg	ctgtcttgca	gatgcttgag	gtatctgcat	3360
agatgttggt	tccaaacacc	ggagcccagt	aggaagggtc	gtctttgtag	tgtgccggac	3420
aatggattct	tgggcagtga	gttgcgtggc	tttcaaaccg	gcacagctga	gcaacgggtg	3480
tgtagcagtc	caaatcctgc	actttcactt	ttgacaccat	gaatgagctg	gaaggtttgc	3540
atttgcctag	ggactgcacg	ccgtgtctct	cagacttcac	gaagaagggg	accttcccgt	3600
tctgtgtgat	atccaccagg	cctcccttgt	catccaggat	cccgtagtgg	atggcgggcg	3660
ggcatatgct	agacgagctt	tcatagaaca	gagttccaaa	gatcttcgcg	ttgtgggttc	3720
ggcagcctgc	tgggcactgg	tacctgttac	acgtggaccc	tttgacacctg	tccttcatct	3780
tgggtgcaca	tctgacgact	tgggtcatgt	agttgaccgc	agaggttttc	ttgggcttgg	3840
tgggtctcat	caccctcggt	tggagccaaa	catggttttc	ttcagggaatg	ggagccggtt	3900
ccacctcatt	catctcgtcc	gtttcagggt	ttggagtgtg	ggtttcttct	cggtaacaca	3960
agttgttctc	gcagctgcct	ccatagctgg	gtgggcactc	agagcagggc	cggccattct	4020
tgtagggggc	ttctccaatc	cagttccctt	ttggagaata	attgcagaca	aagtagaccg	4080
cgttctccca	aacttctccc	cagacagtca	tcttccggca	ggtgttcaca	gcacaaccga	4140
tcttgttggt	ggtggcccaa	actatctgtg	tgtagtgcgt	gcacataggc	cccagagcacc	4200
tctctggaca	ccagggggtg	cactcgctcg	ggtaggggta	ggtgtagtcc	ttcacctcgt	4260
cataccagga	ctgcacatgg	aaccccggag	agcgatacct	gccccagtga	gcgcccagggt	4320
tctgcccgat	ggacaccagg	agactggtgg	gcccgtgctc	ccagatgcac	tgactggccc	4380
acgctgcagc	agacttctcc	agttcgctcat	cccaggctcat	gtactccatg	ttggaggcct	4440
gaggctgcac	ctggccccga	agcttgttgt	gcagcatgag	gatctcctcc	ttgtcctccc	4500
tggggatggc	tctgcccggc	cgggagtggg	actcgttgtg	ctggtatttg	ctgagcagct	4560
cctctaagag	agtgaagttg	ggcaggagggt	agccttggga	tccgcagacc	aggaacagca	4620
gccccaaagg	gatgacacca	cccaggacgc	agctcatggc	tccactcctg	cagcaactat	4680
gggactcacg	gggcagcctg	ggctcctggg	gcagagctgg	gcgcttgagc	tctccgcagg	4740
gctccaatca	ccagctcgct	ggcgtctccc	gcgtccagca	gacgcggtag	cagcggcgac	4800
agcgcgggca	cagcaggcac	agcgggcaca	gcgagcagac	agctcaatgg	agcagccgcg	4860
gacgcgtggg	tcgactc					4877

<210> 873

<211> 4877

<212> DNA

<213> Homo sapiens

<400> 873

```

aggggggtttg ggggggggcct tttttttttt aacccccactt gaaaaaaggg ggttttttcc 60
aaccgcatattt attttgggtta cccccgggtt ttcccttcc caagggtttt aaaaaagggc 120
ccagggggggg gggtaaaata tccccctttg ggggaaattg gggccccccc cggggggggg 180
gggcctttttt ttttttttta aatttttttt tttttttttt tttttttttt tttttttttt 240
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300
tttgatgggtt ttcaatgttt tatttcacaa attgttcaga ttgttcata aaagatatgt 360
tacaggaaaca ttttagaaat caaacaggtt ctactgaaac aattgcaaca acgtggcccc 420
tgttcatgca aagcacaaaa aacatttaca ataaaacttt gtacacagga agtagcaaaa 480
taccatattt ttcatagaaa aaagcacaca cataaactgc gggctgagtg agcctacaga 540
caatatgaga aaccagcaca cgctttggaa tacggtaggg caaaactcct aagggaagcog 600
aaaatgttca tcctgtgggc aggagagcca ggaacgcctg tggcttggtg caagatcttt 660
ttaaacacag ggtaagtgtt ggtagcacga ggggcctcta ttccacacac aggagaggtg 720
gtgctaggga cagggttat catttatagt ctgtttcca tttctgaag acaaatattc 780
cagtttcaaa atgtttgttg ggatgataaa gacagccagg tccatggccg ggcgcagtgg 840
ctcatgcctg taatcccagc acttcgggag gccaaagggtg gtggatcacc tgaggttaagg 900
agttcgagac cagcctggcc aacataatga aaccccatct ctactaaaaa tacaaaaatt 960
agccgggcat ggtagtcaca gcctgttgcc caaggtagctt gggaggctga tgcattgaga 1020
ttgcttgaa cggggaggcg gcagttgcaa tgagcagaga tcacgccact gcactctacc 1080
ttgggcaaca gagtgaact tggctcctggg aaaaaaaaaa aaaaagacag ccaggtcctg 1140
ctctgggcaa ggactttcta tcctgctagg aagaccagtg gaaggaggca ttaaggaaac 1200
cggggacttt atttttaaat gatggggtca actcacactg gaagtttcaa gtctcccttg 1260
agtgggatgc tttggaagcg agccactgg gatcgctcctg gacccttcac taattctgca 1320
aaccacacag ggcgatctaa tttatcttgc agacacagac acagccacaa aagtcacaga 1380
gcagagcacc cagcaccacg aagtttccca gatgttggt ggttaactgga ctacgcacct 1440
gacaggctga ccgaattctt cctctccgac atttggggct gaggagtcag tacctatgaa 1500
ttacgactag actacaatgc acaaagcacg tagtctcttg aatttttagct cagtcaagct 1560
aagagttgaa ctgcttttta ccaactcctt aaaggggtgg gtttttggtt tgttttaaac 1620
ctatttacct tcagattctg catttattag aaaggcaatc aaagaaagaa ggcatcacct 1680
agggtcccag gtaaatttc ttgtccagtc tacagtatct tagtttttga ctttctgcta 1740
gttctttcac ctaagaaata ttttgaatca aatttgaaac tagcattcac caaagtgate 1800
tattggctgg cccggtggtg gagagtgga atttcacctt ctgcaaaaaa atgctattta 1860
caaaagggtg cttcatttca ctgtgggctt ttggtctggg ctcatgaagc acttttatag 1920
agtgatggca gccagggtgt actacactcc ttggcgctc gggaaacgtt ggcaagagtc 1980
gtttcacgaa aacaggaaaa gagatccttc tagtgtatcc ccactctctg ctgtcatgag 2040
gccacagacg gtttcataac cacaactga gctgctaacc tcagttagga atgtacaaa 2100
gactccattc ctcccacggc tgaaaaaata ggtcatcggg tgcgtgggga atctgcacat 2160
ttaattgtca ttttttaaaa gcagcaaaga gcaggccttc tttggttggt ctacagacatc 2220
tcgtctcagt ggaaccttac gagaccagga ggttaagactt gggcttcaaa caggttcgct 2280
tgcaaaagaa agtcctgggt gtgaaccagg acacgtaaac cagtccaggg cagggtggga 2340
gccacaatgg gtagggggtg aagaaagggt cccgactcctt agtcctcaat gggaccaaag 2400
gtcacggcag aaaacagggt ggccatgaag atgaagggcc tgacaaagac aagatacatc 2460
tctgaagtga ctgctgaact ctacataaac cagcactgct gtgtatagag ccactctgaa 2520
tgcgccatt gaagggggcc tgtggcgggc cgccagcaag gacacgtgcc agggcggagc 2580
cgggtctct cataccgca gccctcttac tctagcccat ttgtctgtct gaccagcaaa 2640
cattaaaaac attttctct attggtagg acggactgtg ttttttattt ttaataaact 2700
acctctact tcattctga aactcattgg cgcttgctca aaaggcctct tccgacgccg 2760
tgaatgcttc acaattgtga gcttcaaatg gtttgctctt ttggcaggga ggttgaatc 2820
aacttctcc accaacagaa gaacacatag caaggaacat tttgggcaac tgtccccttt 2880
aagagacagc tcagatctct aaaggagaga ggacgtccag atggagaccc ccgggcccc 2940
gcaggatcag gcaccaggga gtccggctga gcacctggg atgctgttgc ttcagttagg 3000
ggatgagatg tcacctcacc cacaggccac aaagtgatg aactgaaca tcagtcaaa 3060
gaagtttctt gactctccat atacccgca atgacaaaat aaaaataaaa gcaaaacccc 3120
gaagccctcc tgaagacgcc ccttctcccc ttgtgctgga aattcactgc ctgacagcaa 3180
agatccggaa ggcctttcca tcccaggag tcccaggct ttcagactga actccattcc 3240
tgagcgagcc cacgtaggtc ttctttttat ccacgggcat cacgtccacg tcacccccac 3300
tctcgttgct gatgactccc gcgtgcacgg ctgtcttgca gatgcttgag gtatctgcat 3360

```

```

agatgttggg tccaaacacc ggagcccagt aggaagggtc gtctttgcag tgtgccggac 3420
aatggattct tgggcagtga gttgctggct tttcaaaccg gcacagctga gcaacggtcg 3480
tgtagcagtc caaatcctgc actttcactt ttgacaccat gaatgagctg gaaggtttgt 3540
atttgctgag ggactgcacg ccgtgtctct cagacttcac gaagaagggg accttcccgt 3600
tcctggtgat atccaccagg cctcccttgt catccaggat cccgtagtgg atggcggcgc 3660
ggcatatgct agacgagctt tcatagaaca gaggttccaa gatcttcgcc ttgtggttca 3720
ggcagcctgc tgggcactgg tacctgttac acgtggaccc ttgcaacctg tccttcatct 3780
tgggtgtcaca tctgacgact tgggtcatgt agttgaccgc agagggtttc ttgggcttgg 3840
tgggtctcat caccctcggg tggagccaaa catgggtttc ttcaggaatg ggagccgttt 3900
ccacctcatt catctcgtcc gtttcagggt ttggagtgtg ggtttcttct cggtaacaca 3960
agttgtttct gcagctgcct ccatagctgg gtgggcactc agagcagggc cggccattct 4020
tgtagggggc ttctccaatc cagttcccct ttggagaata attgcagaca aagtagaccg 4080
cgttctccca aacttctccc cagacagtca tcttcgggca ggtgttcaca gcacaaccga 4140
tcttggtggg ggtggcccaa actatctgtg tgtagtgcgt gcacataggc cccgagcacc 4200
tctctggaca ccaggggttg cactcgctcg ggtagggtta ggtgtagtcc ttcacctcgt 4260
cataccagga ctgcacatgg aaccccggag agcgatacct gccccagtga gcgcccagg 4320
tctgcccgat ggacaccagc agactgggtg gcccggtgctc ccagatgcac tgactggccc 4380
acgctgcagc agacttctcc agttcgtcat cccaggtcac gtactccatg ttggaggcct 4440
gaggctgcac ctggcccccga agcttgttgt gcagcatgag gatctcctcc ttgtcctccc 4500
tggggatggc tctgcggacc cgggagttag actcgttgtg ctggtatttg ctgagcagct 4560
ccttaagag agtgacgttg ggcaggaggt agccttggga tccgcagacc aggaacagca 4620
gccccaaagg gatgacacca cccaggacgc agtcatggc tccactcctg cagcaactat 4680
gggactcacg gggcagcctg ggctcctggg gcagagctgg gcgcttgagc tctccgcagg 4740
gctccaatca ccagctcgtt ggcttctccc gcgtccagca gacgcggtag cagcggcgac 4800
agcgcgggca cagcaggcac agcgggcaca gcgagcagac agctcaatgg agcagccgcg 4860
gacgcgtggg tgcactc                                     4877

```

<210> 874

<211> 446

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(446)

<223> n = A,T,C or G

<400> 874

```

gggagtcgac cacgcgtccg ctctgctgga acagaggggt gttttacagt gtaccagtcc 60
cttagtctat acagcaccct tggtttaagc acacttgcca tcatctggta tcctgctaga 120
ctagaatctc ttaaaagcaa attggttttc tttcaaagac caacttgact ccaaagagag 180
attcagaatc ctacttctcc tgctgctgca taaagaatct caaccttcat tttatttgaa 240
cacggaccaa agtggttcctg cttctgagtt gtctgtaagc taattctgca gatgttccat 300
tcagatttaa agctttttta ctgcatagga tgtggatagg aagcctaact attgtatctg 360
atggcaaggc atatgttgca gccacagtac tggctatggg ccctttgctg aaacaagcta 420
cagaagcact gattcaagat gtgcnn                                     446

```

<210> 875

<211> 446

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(446)

<223> n = A,T,C or G

<400> 875

```

gggagtcgac cacgcgtccg ctctgctgga acagaggggt gttttacagt gtaccagtcc 60
cttagtctat acagcaccct tggtttaagc acacttgcca tcatctggta tcctgctaga 120
ctagaatctc ttaaaagcaa attggttttc tttcaaagac caacttgact ccaaagagag 180

```



```

attcagaatc ctacttctcc tgctgctgca taaagaatct caaccttcat tttatttgaa 240
cacggaccaa agtggttcctg cttctgagtt gtctgtaagc taattctgca gatgttccat 300
tcagatttaa agctttttta ctgcatagga tgtggatagg aagcctaact attgtatctg 360
atggcaaggc atatgttgca gccacagtac tggctatggc ccctttgctg aaacaagcta 420
cagaagcact gattcaagat gtgcnn                                     446

```

<210> 876

<211> 679

<212> DNA

<213> Homo sapiens

<400> 876

```

gogtccgggt tgtttttcca aagtatgcct gttcaatagc cattggatgt gggaaatttc 60
tacatctctt aaaattttac agaaaataca tagccagata gtctagcaaa agttcaccaa 120
gtcctaaatt gcttctcctt acttcaactaa gtcataaat cattttaatg aaaagaacat 180
cacctagggt ttgtgggttc ttttttctt attcatggct gagtgaatac aacaatctct 240
gtttctccct agcatctgtg gactatttaa tgtaccatta ttccacactc tatggctcct 300
actaaatata aaattgaaca aaaagcagta aaacaactga ctcttcaccc atattataaa 360
atataatcca agccagatta gtcaacatcc ataagatgaa tccaagctga actgggacct 420
gattattgag ttcagggttg atcacatccc tatttattaa taaacttagg aaagaaggcc 480
ttacagacca tcagttagct ggagctaata gaacctacac ttctaaagtt cggcctagaa 540
tcaatgtggc cttaaaagct gaaaagaagc aggaaagaac agttttcttc aataatttgt 600
ccaccctgtc actggagaaa atttaagaat ttgggggtgt tggtagtaag ttaaacacag 660
cagctgttca tggcagaaa                                     679

```

<210> 877

<211> 704

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(704)

<223> n = A,T,C or G

<400> 877

```

nttactttta gaataattta tatctgataa attgaatata tcaggatttg atgtattaag 60
agcaatttca aaagataata aaaataagct atagcatatg tcctgaaaac tatttacaat 120
accattttaa tattttattc atatctatcc gaattattgac caggacacta atgccacact 180
gcagagttaa taatctgtgc attttcttta ccgtaattga cagagtatgc tttcttagct 240
gocctgattc ctttctctta aaaatgcttt atcggtttaa gctttcaacc agcttaaaaa 300
taatgcctct cctatgtctc catgagtggg aaaaagcaa acaaaccttg tgtttaacaa 360
taaggctcagc atgacataca gcaacaagag ccagtaaatc gaaaatgagg ctgacattct 420
gggactaggc cagcagtcct gcaacagctc tccagactcc acagctgcat aaggctgtgg 480
acaagcttgg ggcagccccc tgtgcctgtg acctgagctc tgccttgga tgaggtcaac 540
tccaaggagg agaacaacc ccttggtgtt tttctttgct ttgggttatag gatattcaga 600
gaaggatatg attgaataat ttctgccatg aacagctgct gtgtttaact tactaccaac 660
acccccaaat cttaaatttc tccaggacag ggggacaaat annn                                     704

```

<210> 878

<211> 1139

<212> DNA

<213> Homo sapiens

<400> 878

```

ctcttttaga gtgattttgt cagcatagct cctcaagtat agttcctcaa taattgatat 60
gtgaactaaa gcaacgagtt actgactgcc catagcccca tcataaatga tggtaagcat 120
aggataatgg ctttagacag ttttattcaa aaagagagaa attgggaggc acccagcaaa 180
cactggctta taacatttct gaattccagt cagatatgtg ttgatgattt cttgataagg 240
agctcagctc tattctctgg gagttctctg aggttcttgc ctctgccctc tgagtcaccc 300
ttccttttgc ataaaaactg gcctgtgggc tctgtgtgca gccaaagtagc cttcttatcc 360

```

```

tgcttcgtgc ccatgaaagg ttaggggatc agggcaggaa ctggaaagct tttcttgtaa 420
attaaggcca tatagtaaat attttaggtt tagcaggaca tgcggttttt gttgaagcta 480
ctcatctttg ctgttaaaaa tgaaagcagc catagacaat aggcaaatga atgaatatga 540
ctgtgtccca gtaaaacttt atttacaaaa acagggtggtg ggctggattt ggtatatagg 600
ctctggtttg ctgacccttg atatagcagt ctcttcattt tttttcttg tctatccctt 660
tacatgtaat ctgacatgat tgcttaaaaa ttgtgtgagt ttccggtgta tctgttttca 720
aggaatccag cctattagac gaaagccata ccataagtt tctttgacac aaacccttct 780
ctatcttggg tcccctgtga gggtccctatg ggacagcact tttagatctt aaatccttgc 840
cccttagatc ctgccttttg aacaataaga gtttctgtta cacatttctt taagatctgg 900
agagtgcctt ttgtctgtct gaaagtcttg gaaggcactg cctaggtctt tctaaagtct 960
tagcaaagga ttcattctccc cccaccccg cctgccccga tactgtttct taaagaattc 1020
ctggctgaca ttttacattt cctccaaatt ccactcaaat agttcatttt tttaatgata 1080
tctttgtcct cttttgccct ctttcagcaa atttctgcta gatcattgag tttattagt 1139

```

<210> 879

<211> 2497

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2497)

<223> n = A,T,C or G

<400> 879

```

nnnggcgggc acgccccctc gccgcgggcc ccctcccgcc ctctctccac cgctcctct 60
ggctccccgg tcagagggcc ggagcgagaa gatggcgaag acgtacgatt atctcttcaa 120
gctcctgctg atcggcgact cgggggtagg caagacctgc ctctgttcc gcttctcaga 180
ggacgccttc aacaccacct tcatctccac catcggaatt gattttaaaa ttagaacgat 240
agaactagat ggaagaaaaa ttaagcttca gatatgggac acagcgggtc aggaaagatt 300
ccgaacaatc acgacagcgt actacagagg agccatgggc attatgctgg tctatgacat 360
cacaaatgaa aaatcctttg acaatattaa aaattggatc agaaacattg aagagcatgc 420
ctcttccgat gtcgaaagaa tgatcctggg taacaaatgt gatatgaatg acaaaagaca 480
agtgtcaaaa gaaagagggg agaagctagc aattgactat gggattaaat tcttgagac 540
aagcgcaaaa tccagtgcac atgtagaaga ggcatttttt acacttgacac gagatataat 600
gacaaaactc aacagaaaaa tgaatgacag caattcagca ggagcagggtg gaccagtga 660
aataacagaa aaccgatcaa agaagaccag tttctttcgt tgctcgctac tttgatgaac 720
tctttctgag agactgcagc acacctagag ggccctttcc tgcttctctg aaagcacagg 780
tcacccagcc tcagaatcac acctcccgcc tgctgctgag agcaccactg aacttagacc 840
tctcaacaca gtatgccaag tggattccag cctcatggcc tagcaaaaga acagactccc 900
tttttcaaac atggaagcaa tgaagtggag acacatgcag gacctaaactc gttttttcct 960
tgttttatta cctgttgacg aagcgggttat ctttcttttt tactttgcac atcagtgtta 1020
gcctttccct atttcagcac aatcttagac tcatatttgc aacttttgt gtcgtgaagt 1080
tctagacaaa tttgtacatg tggcaatgtt aaaagagcat ttacagcaga ggttaataata 1140
ctaaaattaa agggattttg gtctggttca tatggtcaaa tattactgcc ttggtagcat 1200
ttatttaagg gctttttctt aaataagaat cattaaagtc attaaaaaaa tttactgaaa 1260
tgcccatctt gtcacaaaag gccacaattt ctttatttct tcagattaag agctttgcct 1320
catccccgac ctgtttttcca gagtctgggt agctgaatga atcactttaa aatgattacc 1380
tctgccta at ctatagaaac tgcattttgga aatcaccata atctcatttt tccctgggg 1440
ttgtatttgc tattctttcc catgtttgac ttaagtgtaa tcaactctta gtaatatattg 1500
aacattatta tctgtttcta tttgtgaact tcttgagctg aaattttacg tgggctgaga 1560
gatataccat ttagggtttt agtgcagcat ctaactgtga ttctgtcaat aaggatattg 1620
aatatatttt ttcttaggtt cactccttag ctggctgggt tagttgtaat accaaattcc 1680
taccataatc cctgtctaca aaagttaggt ttagatttta gtttgcgga accttcccta 1740
tatagagaca gattaacttg ttgatataaa tttaatagag ctagctcttg gtaatggtga 1800
aaataatgag ttttggttgg ttttatttgg cagatgtttt tagaaataaa agtacttaga 1860
cctagtgcag cctctaggaa aagtcttgcc ttttcattag agaaaacagg accaaggttt 1920
cagttttcaa acagctgttg ttgaatgtgt agaaccagc tccatctgtt ttggttcatt 1980
gtttacagaac ttagtccagt catttgggct aaagccaacc aaaagcttag ttgcctttct 2040
caacaaacac tggtagtgg atacttttgt agatgaaacc atcacaagg atttagtgtt 2100
aactgtgtg ccaaattcag atcactatgt cggtgttgct ctagccttca gtgtcataac 2160

```

```

acagggggga taaaacagag gggatgaggg aaatgaattc tgtaataat tattcttcct 2220
ggtatgcctg ttttgcttca caaaggctac tatcatgctg gatagataag aacaggagat 2280
ggcagtggaag agggattgct tgggtaccaca gagaattctc ttcaaattaa gatatgtcat 2340
tagaatgctt ggaccagtca atcttttgta cttatttgaa aatntagga caatttaaca 2400
gctgcaaata tgcccaaagc tatttttaaat agatntacta aacttattgg tggccaantt 2460
cagctcctt aatttttttt ttttggaan tacctan 2497

```

<210> 880

<211> 944

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(944)

<223> n = A,T,C or G

<400> 880

```

nnnagaactg ctagatatgt gatatttggg gggacaaaaa ttccctttttt ccccatgaga 60
cagagtctcg ctctgtcgcc caggctggag tgcagtggcg agatcttggc tcaactgcaac 120
ctccacctcc tgggttcaag caattctcct gcctcagcct cctgagtagc tgggattaca 180
ggcacccacc accacacctg gctaattttt gtattatgtt ggccaggctg gtctcaaact 240
cctgacctca ggtgatctac ctccctcgcc ttcccaaagt gctgggatta caggcctgag 300
caacagcgct cagccatggt tcaagattcc taatgttcat ttgaatgtca tattggcagt 360
acaatcactg agatctctct tcaactaaaa ctgagaattg gctacagaaa ataagttgtg 420
acatgaagat aaaatacata ttggcaaaaat ataacacact gaatcccttg gctacattaa 480
atccttaata ttggtgaatt cattttggct ttatatttta aaaaaatatt tatttttaac 540
atgaaactta tttttttaac aaagtgtcta ttactattcc gctatctatt gcagtaaaga 600
atacagtttt ttaaaaggaa aatagttggg catctgtttg acagaaatga gtacttcaag 660
tacataagta aatcatcaac agaactacac actctaaaca acagcagtaa aaaggaaaag 720
agctagaata tgtatttcat ataaagctta agtttcacaa cataataaat aaatgcactg 780
atttatacaa cttgtggaag ccttcttttg atgattacaa gtaatactgt ctgttactga 840
ctttgctgac accagcactg cctcacatag agaaatccaa aggtaaaatt cttgccccta 900
atgccacaaa atatacaaaag cggacgcggg gtcgactccc tata 944

```

<210> 881

<211> 944

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(944)

<223> n = A,T,C or G

<400> 881

```

nnnagaactg ctagatatgt gatatttggg gggacaaaaa ttccctttttt ccccatgaga 60
cagagtctcg ctctgtcgcc caggctggag tgcagtggcg agatcttggc tcaactgcaac 120
ctccacctcc tgggttcaag caattctcct gcctcagcct cctgagtagc tgggattaca 180
ggcacccacc accacacctg gctaattttt gtattatgtt ggccaggctg gtctcaaact 240
cctgacctca ggtgatctac ctccctcgcc ttcccaaagt gctgggatta caggcctgag 300
caacagcgct cagccatggt tcaagattcc taatgttcat ttgaatgtca tattggcagt 360
acaatcactg agatctctct tcaactaaaa ctgagaattg gctacagaaa ataagttgtg 420
acatgaagat aaaatacata ttggcaaaaat ataacacact gaatcccttg gctacattaa 480
atccttaata ttggtgaatt cattttggct ttatatttta aaaaaatatt tatttttaac 540
atgaaactta tttttttaac aaagtgtcta ttactattcc gctatctatt gcagtaaaga 600
atacagtttt ttaaaaggaa aatagttggg catctgtttg acagaaatga gtacttcaag 660
tacataagta aatcatcaac agaactacac actctaaaca acagcagtaa aaaggaaaag 720
agctagaata tgtatttcat ataaagctta agtttcacaa cataataaat aaatgcactg 780
atttatacaa cttgtggaag ccttcttttg atgattacaa gtaatactgt ctgttactga 840
ctttgctgac accagcactg cctcacatag agaaatccaa aggtaaaatt cttgccccta 900

```

atgccacaaa atatacaaaag cggacgcggg gtcgactccc tata

944

<210> 882

<211> 744

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(744)

<223> n = A,T,C or G

<400> 882

```

ggtatagact cctccttaga ggtgtctagc agtaggaaat atgataagca aatggccgtg 60
ccttccagaa atacaagcaa gcaaatgaat ctgaatccta tggattcacc tcattcccct 120
atatcccctc tgccaccaac actcagccct cagccacgag gtcaggaaac agagagtgtg 180
gaccaccat cggtccctgt gaatccagcc ctttatggaa atggactaga actccagcag 240
ttgtctactc tggatgacag aactgtcctc gtaggccaaa gactgcctct catggcagag 300
gtcagcgaga cagccttata ttgtgggatt aggcctcga acccgagtc atcagaaaag 360
tggtggcata gttattgtct cccaccagt gatgatgctg agttcaggcc tccagagctc 420
cagggtgaga gatgtgatgc caaatggag gtaaaactcag agagcactgc attgcaaaga 480
ctcttagcac aacctaacaa acggttttaa atctggcaag acaaacagcc ccagttgcag 540
ccactccact tccttgaccc attgcctcta tcacaacaac ctggagacag tttgggagaa 600
gtgaatgacc catatacctt tgaagatggt gacataaaat acatctttac agccaacaag 660
aaatgcaaac aagggacgga gaaagattcc ctgaaaaaga ataagtcaga ggatggattt 720
ggtcctgccc gggcgccgc tenn
744

```

<210> 883

<211> 744

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(744)

<223> n = A,T,C or G

<400> 883

```

ggtatagact cctccttaga ggtgtctagc agtaggaaat atgataagca aatggccgtg 60
ccttccagaa atacaagcaa gcaaatgaat ctgaatccta tggattcacc tcattcccct 120
atatcccctc tgccaccaac actcagccct cagccacgag gtcaggaaac agagagtgtg 180
gaccaccat cggtccctgt gaatccagcc ctttatggaa atggactaga actccagcag 240
ttgtctactc tggatgacag aactgtcctc gtaggccaaa gactgcctct catggcagag 300
gtcagcgaga cagccttata ttgtgggatt aggcctcga acccgagtc atcagaaaag 360
tggtggcata gttattgtct cccaccagt gatgatgctg agttcaggcc tccagagctc 420
cagggtgaga gatgtgatgc caaatggag gtaaaactcag agagcactgc attgcaaaga 480
ctcttagcac aacctaacaa acggttttaa atctggcaag acaaacagcc ccagttgcag 540
ccactccact tccttgaccc attgcctcta tcacaacaac ctggagacag tttgggagaa 600
gtgaatgacc catatacctt tgaagatggt gacataaaat acatctttac agccaacaag 660
aaatgcaaac aagggacgga gaaagattcc ctgaaaaaga ataagtcaga ggatggattt 720
ggtcctgccc gggcgccgc tenn
744

```

<210> 884

<211> 4877

<212> DNA

<213> Homo sapiens

<400> 884

```

aggggggttt gggggggcct tttttttttt aacccactt gaaaaaaggg ggttttttcc 60
aacgggattt atttgggtta cccccgggtt tttcccttcc caagggtttt aaaaaagggc 120
ccaggggggg gggtaaaata tccccctttt ggggaaattg gggccccccc cggggggggg 180

```

```

gggccttttt ttttttttta aatttttttt tttttttttt tttttttttt tttttttttt 240
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300
tttgatgggt ttcaatgttt tatttcacaa attgttcaga ttgttcata aaagatatgt 360
tacaggaaaca ttttagaaat caaacaggtt ctactgaaac aattgcaaca acgtggcccc 420
tggtcatgca aagcacaaaa aacattttaca ataaaaacttt gtacacagga agtagcaaaa 480
tacatcattt ttcatagaaa aaagcacaca cataaactgc gggctgagtg agcctacaga 540
caatatgaga aaccagcaca cgctttggaa tacggtaggg caaaactcct aagggaagccg 600
aaaatgttca tcctgtgggc aggagagcca ggaacgccgt tggcttggtt caagatcttt 660
ttaaacacag ggtaagtgtt ggtagcacga ggggcctcta ttccacacac aggagaggtg 720
gtgctagggg cagggcttat cttttatagt cttgtttcca ttttctgaag acaaattttc 780
cagtttcaaa atgtttgtgg ggatgataaa gacagccagg tccatggccg ggccagtggt 840
ctcatgcctg taatcccagc acttcggggg gccaaaggtg gtggatcacc tgaggtaagg 900
agttcgagac cagcctggcc aacataatga aaccccatct ctactaaaaa tacaaaaaatt 960
agccgggcat ggtgctcac gcctgttgcc caaggtactt gggaggctga tgcattgaga 1020
ttgcttgaac cggggaggcg gcagttgcaa tgagcagaga tcacgccact gcactctacc 1080
ttgggcaaca gagtgaact tggctcctggg aaaaaaaaaa aaaaagacag ccaggtcctg 1140
ctctgggcaa ggactttcta tcctgctagg aagaccaggt gaaggaggca ttaaggaacc 1200
cggggacttt atttttaaat gatgggggtc actcacactg gaagtttcaa gtctcccttg 1260
agtgggatgc tttggaagcg agccactgg gatcgtcctg gacccttcac taattctgca 1320
aaccacacag ggcgatctaa tttatcttgc agacacagac acagccacaa aagtccagca 1380
gcagagcacc cagcaccagc aagtttccca gatgttggg gtaactgga ctcacgacct 1440
gacaggctga ccgaattctt cctctccgac atttggggt gaaggagtcag tacctatgaa 1500
ttacgactag actacaatgc acaaagcacg tagtctgtg aatttttagct cagtcaagct 1560
aagagttgaa ctgcttttta ccaactcctt aaaggggtgg gtttttgttt tgttttaaac 1620
ctattttact tcagattctg cttttattag aaaggcaatc aaagaaagaa ggcacacct 1680
aggtgccag gtagaatttc ttgtccagtc tacagtatct tagtttttga ctttctgcta 1740
gttctttcac ctaagaaata ttttgaatca aatttgaaac tagcattcac caaagtgatc 1800
tattggctgg ccgggtggt gagagtggaa ttttcacct ctgcaaaaaa atgctattta 1860
caaaagggtt cttcatttca ctgtgggctt ttggtctggg ctcatgaagc acttttatag 1920
agtgatggca gccagggtgt actacactcc ttgggcctc gggaacgttt ggcaagagtc 1980
gtttcacgaa aacaggaaaa gagatccttc tagtgtatc ccatctctcg ctgtcatgag 2040
gccacagacg gtttcataac cacaactga gctgctaacc tcagtggagg atgtaccaa 2100
gactccattc ctcccacggc tgaaaaaata ggtcatcggg tgcgtgggga atctgcacat 2160
ttaattgtca ttttttaaaa gcagcaaaga gcaggccttc tttggttgtt ctgagacatc 2220
tcgtctcagt ggaaccttac gagaccagga gtttaagactt gggcttcaaa caggttcgct 2280
tgcaaaagaa agtcctgggt gtgaaccagg acacgtaaac cagtcogagg cagggtggga 2340
gccacaatgg gtagggggtt aagaaagggt cccgatcctt agtcctcaat gggaccaaa 2400
gtcacggcag aaaacagggt ggccatgaag atgaagggcc tgacaaagac aagatacatc 2460
tctgaagtga ctgctgaact ctacataaac cagcactgct gtgtatagag ccatcctgaa 2520
tgccggccatt gaagggggcc tgtggcgggc cgccagcaag gacacgtgcc agggcgggagc 2580
cggggtctct cataccgca gccctcttac tctagcccat ttgtctgtct gaccagcaa 2640
catttaaaac attttcctct attggtaggg acggactgtg ttttttattt ttaataaact 2700
accttctact tcattcctga aactcattgg cgcttgcata aaaggcctct tccgacgccg 2760
tgaatgcttc acaattgtga gcttcaaatg gtttgttctt ttggcaggga ggttgaaatc 2820
aacttctctc accaacagaa gaacacatag caaggaacat tttgggcaac tgtccccttt 2880
aagagacagc tcagatctct aaaggagaga ggacgtccag atggagaccc ccgggcccc 2940
gcaggatcag gcaccaggga gtcgggctga gcacctggg atgctgttgc ttcagtggag 3000
ggatgagatg tcacctcacc cacaggccac aaagtgatgg aactgaaca tcagtcaaag 3060
gaagtttctt gactctccat ataccggca atgacaaaat aaaaataaaa gcaaaacccc 3120
gaagccctcc tgaagacgcc ccttctcccc ttgtgctgga aattcactgc ctgacagcaa 3180
agatccggaa ggcctttcca tcccaggag tcccaggct ttcagactga actccattcc 3240
tgagcgagcc cacgtaggtc ttctttttat ccacgggcat cacgtccacg tcacccccac 3300
tctcgttgct gatgactccc gcgtgcacgg ctgtcttgca gatgcttgag gtatctgcat 3360
agatgttggt tccaaacacc ggagcccagt aggaaggttc gtctttgcag tgtgccggac 3420
aatggattct tgggcagtga gttgctggct tttcaaacgg gcacagctga gcaacgggtc 3480
tttagcagtc caaatctgc actttcactt ttgacacct gaatgagctg gaaggtttgt 3540
atgtgctgag ggactgcacg ccgtgtctct cagacttcac gaagaagggg acctcccg 3600
tcctggtgat atccaccagg cctcccttgt catccaggat cccgtagtg atggcgggc 3660
ggcatatgct agacgagctt tcatagaaca gagttccaaa gatcttcgcc ttgtggttca 3720
ggcagcctgc tgggcactgg tacctgttac acgtggaccc tttgcacctg tccttcactc 3780
tggtgtcaca tctgacgact tgggtcatgt agttgaccgc agaggttttc ttgggcttgg 3840

```

```

tgggtctcat caccctcggt tggagccaaa catgggttttc ttcaggaatg ggagccggtt 3900
ccacctcatt catctcgtcc gtttcagggt ttggagtgtg ggtttcttct cggtaacaca 3960
agttgttcct gcagctgcct ccatagctgg gtgggcactc agagcagggc cggccattct 4020
tgtagggggc ttctccaatc cagttcccct ttggagaata attgcagaca aagtagaccg 4080
cgttctccca aacttctccc cagacagtca tcttcoggca ggtgttcaca gcacaaccga 4140
tcttgttggg ggtggcccaa actatctgtg tgtagtgcgt gcacataggc cccgagcacc 4200
tctctggaca ccaggggttg cactcgctcg ggtaggggta ggtgtagtcc ttcacctcgt 4260
cataccagga ctgcacatgg aaccccgag agcgatacct gcccagtgta gcgccagg 4320
tctgccgat ggacaccagc agactgggtg gccgtgctc ccagatgcac tgactggccc 4380
acgctgcagc agacttctcc agttcgtcat cccagggtcat gtactccatg ttggaggcct 4440
gaggctgcac ctggcccccga agcttgttgt gcagcatgag gatctcctcc ttgtcctccc 4500
tggggatggc tctgcggacc cgggagtgtg actcgttgtg ctggtatttg ctgagcagct 4560
cctctaagag agtgacgttg ggcaggaggt agccttgga tccgcagacc aggaacagca 4620
gccccagggt gatgacacca cccaggacgc agctcatggc tccactcctg cagcaactat 4680
gggactcacg gggcagcctg ggctcctggg gcagagctgg gcgcttgagc tctccgcagg 4740
gctccaatca ccagctcgtc gggtccagca gacgcggtag cagcggcgac 4800
agcgcgggca cagcaggcac agcgggcaca gcgagcagc agctcaatgg agcagccgcg 4860
gacgcgtggg tcgactc                                     4877

```

<210> 885

<211> 2497

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2497)

<223> n = A,T,C or G

<400> 885

```

nnngcggggc acgccccctc gcccgcgggc cctccccgc ctctctccac cgcctcctct 60
ggctccccgg tcagaggggc ggagcgagaa gatggcgaag acgtacgatt atctcttcaa 120
gctcctgctg atcggcgact cgggggtagg caagacctgc ctctgttcc gcttctcaga 180
ggacgccttc aacaccacct tcatctccac catcggaatt gattttaaaa ttagaacgat 240
agaactagat ggaaagaaaa ttaagcttca gatatgggac acagcgggtc aggaagatt 300
ccgaacaatc acgacagcgt actacagagg agccatgggc attatgctgg tctatgacat 360
cacaaatgaa aaatcctttg acaatattaa aaattggatc agaaacattg aagagcatgc 420
ctcttcgat gtcgaaagaa tgatcctggg taacaaatgt gatatgaatg acaaaagaca 480
agtgtcaaaa gaaagagggg agaagctagc aattgactat gggattaaat tcttgagac 540
aagcgcaaaa tccagtgcac atgtagaaga ggcatttttt acacttgcac gagatataat 600
gacaaaactc aacagaaaaa tgaatgacag caattcagca ggagcaggtg gaccagtga 660
aataacagaa aaccgatcaa agaagaccag tttctttcgt tgctcgtac tttgatgaac 720
tctttctgag agactgcagc acaoctagag ggccctttcc tgcttctctg aaagcacagg 780
tcaccagcc tcagaatcac acctcccggc tgctgctgag agcaccactg aacttagacc 840
tctcaacaca gtatgccaag tggattccag cctcatggcc tagcaaaaga acagactccc 900
tttttcaaac atggaagcaa tgaagtggag acacatgcag gacctaaactc gttttttcct 960
tgttttatta cctgttgagc aagcgggttat ctttcttttt tactttgcac atcagtgtta 1020
gcctttccct atttcagcac aatcttagac tcatatttgc acacttttgt gtcgtgaagt 1080
tctagacaaa tttgtacatg tggcaatgtt aaaagagcat ttacagcaga ggttaataata 1140
ctaaaattaa aggtattttg gtctggttca tatggtcaaa tattactgcc ttggtagcat 1200
ttatttaagg gctttttctt aaataagaat cattaaagtc attaaaaaaa tttactgaaa 1260
tgcccatctt gtcataaaag gccacaattt ctttatttct tcagattaag agctttgcct 1320
catccccgac ctgttttcca gagtctgggt agctgaatga atcactttaa aatgattacc 1380
tctgcctaata ctatagaaac tgcatttgga aatcaccata atctcatttt tccctgggg 1440
ttgtatttgc tattctttcc catgtttgac ttaagtgtaa tcaactttaa gtaatatattg 1500
aacattatta tctgtttcta tttgtgaact tcttgagctg aaattttacg tgggctgaga 1560
gatataccat ttagggtttt agtgcagcat ctaactgtga ttctgtcaat aaggatatgt 1620
aatataattt tctttaggtt cactccttag ctggctgggt tagttgtaat accaaattcc 1680
taccataatc cctgtctaca aaagttaggt ttgattttta gtttgcgga accttcccta 1740
tatagagaca gattaacttg ttgatataaa tttaatagag ctagctcttg gtaatggtga 1800
aaataatgag ttttggttgg ttttatttgg cagatgtttt tagaaataaaa agtacttaga 1860

```

```

cctagtgcag cctctaggaa aagtcttgcc ttttcattag agaaaacagg accaagggtt 1920
cagttttcaa acagctgttg ttgaatgtgt agaaccaggt tccatctgtt ttggttcatt 1980
gttacagaac ttagtccagt cttttgggct aaagccaacc aaaagcttag ttgcctttct 2040
caacaaacac tggtagtggt atacttttgt agatgaaacc atcacaaggt atttagtggt 2100
aacttggtgt ccaaattcag atcactatgt cgttggtgct ctageccttca gtgtcataac 2160
acagggggga taaaacagag gggatgaggg aaatgaattc tgtaataat tattcttcct 2220
ggtagcctg ttttgcttca caaaggctac tatcatgctg gatagataag aacaggagat 2280
ggcagtgga agggattgct tggtagcaca gagaattctc ttcaaattaa gatatgtcat 2340
tagaatgctt ggaccagtca atcttttgta cttatttgaa aatntagga caatttaaca 2400
gctgcaaata tgcccaaagc tatttttaat agatntacta aacttattgg tggccaantt 2460
cagcctcctt aatttttttt ttttggaan tacctan 2497

```

<210> 886

<211> 197

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(197)

<223> n = A,T,C or G

<400> 886

```

nnncgaattg gagctccccg cgggtggcggc cgaggtacac agaaaagcgg ttaccagcac 60
aggactctgg gttcctgtcc tacctcttgc acttgggcaa aggacttaac ctctttatgc 120
ctctgttgct ttgtataaaa tagggataat tatggtaata ccacagtttg ttttgatgat 180
taagagttga tacatat 197

```

<210> 887

<211> 714

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(714)

<223> n = A,T,C or G

<400> 887

```

acaatttgaa ctgttcagat tcctaaaaat catatggctg tttaggatgt cgaaaccatt 60
cttagagcct agacataata tctgaagtaa gtatcagcaa tgcttttaat aattccaaaa 120
ctgttttagt agaaaataag cttgcatgaa gaagggttaa aaataataaa tgggtgataa 180
attgatTTTT tttctcccat acaaaactca tgacaacatc atggccataa cgctaattgca 240
ttatgaatgt atggtgtgaa atgtgccatt caaaagcaca ttcaggctga ggaaagacag 300
gcctaagggt aaggccattg ccactatttt agttcattca taatcaaac atgtaattag 360
cgtagtaaaa agcattctac tgaagagtc aaagggggac acgatctgtc caatgctttc 420
attatgttat aacccaatgg acaacaagc ctatccttag acaggccttt gcaatgttgt 480
ctttcaagcc acaagaaaga acaccctgaa ggtgtgactt ttacttcttt tttttaaaat 540
ccaattttca aaaagaagga tttgaaactg caagatgaaa aactagatgt gtcaacaaa 600
tgctgtttca gtgctcacat acaggacat aactatttta taggcagctg ttggaaattg 660
atattggattg taaaatcggg cagaaatgta ctgatgggat gcatttacca tgann 714

```

<210> 888

<211> 516

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(516)

<223> n = A,T,C or G

```

<400> 888
acctttacat aactggcatg tttgattttt aacaaggccc tttggaggta accagagcaa 60
gtgccattag cctttctgta ggtgaataag aggaggcttg gagagggtgcc cagagccaca 120
cagcctccta agaggccaca ctggcatgga atcagggtcat cagccctgca cgtggcatgt 180
ggtctctcgg tatttccaat ggccagtgcc aggacatcag gtctgtgaga ttaaaatagt 240
agaaaaagat gagggaaaat gtttcatagg gtcccaggc atcagcgttt agaactggaa 300
gacacttttc actgcatagt ttgtcagaaa atgcttaaat ttcattggtc agaattgat 360
ctagcttaca agttatctga acttttaaaa atgcggtggt tttctttttt tgggtgtggg 420
gtttttgtta gtccgcttgc tatcgtgtta tccctgccct atccttctcc taccctggac 480
cccagcctca tcctgctgaa gtgtgggcnn nnnnnn 516

```

```

<210> 889
<211> 197
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(197)
<223> n = A,T,C or G

```

```

<400> 889
nnncgaattg gagctccccg cgggtggcggc cgagggtacac agaaaagcgg ttaccagcac 60
aggactctgg gttcctgtcc tacctcttgc acttgggcaa aggacttaac ctcttatgc 120
ctctgttgc tttgtataaaa tagggataat tatggtaata ccacagttt ttttgatgat 180
taagagttga tacatat 197

```

```

<210> 890
<211> 1299
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(1299)
<223> n = A,T,C or G

```

```

<400> 890
gcgtccggga aaaaagagga tatgctttta aaggtagaac aaaccttctt ctgtgttaaa 60
tcaaaaggat gttcaaaatc caccaggaca gatgctactt gggtttaaat ggagccatag 120
atgatacaaa gtcctcttgg ggctgaaaat cacttcctat ttgcatggct ttactaactg 180
gtttctgttt tccattatct tttcacaga aagtcttgggt cagtattttt ccagcattta 240
aattgaaacg gtcagtatta gaccactgct aggttatgta gtcaagaaat aaaaatagaa 300
ttacatgcta cagatgtctt tattctcctt ccatctagaa aggagttcca aggtcaaatt 360
actttttagt gcaatagtta aatgacattt tgagatcata actcatatcc aaaaagttgc 420
agggaaaatt aaaatagctt tcccctatta agctaattggc aaacaaaact taagtggacc 480
cccacttcca gtggttggtt aggttgcagt tgtgaaaata tgctgccaac atttaaaaac 540
ttgtttcata tgtatatatg tatacacata tatgaatatg tatgtatata tacatatatg 600
agaacatgtg tgtacacata tatgaatatg tatatatgtg tatgtatgta tatatgtata 660
tgaaatgaga gccacatcta aagatttctt aaatcaagtt tggttcagct tccttagaac 720
tgtggctgta ctttttgagg agtacctcat agtactatat ttttaatgca tgcaaatcat 780
aatagctcca aatgaaccac agttttttcc caatggagga ttttttttta attcttgtac 840
taaaaaaaaa aatccatac caaatatttt tacaatttaa gattgatgta ggttttaaaa 900
aaggcatttg tatgttggtta gcttacatat ggggctaggt aatttcattg cttaaaaaga 960
tgcccttagg ctccctcttg gtggctggat ttctttttct tcgcccggtg tgcccatggt 1020
tcttaatagg gccaccgaa tcatggtttc tttctttttt tttttttttg agatggagtc 1080
tcgccctgtg acccaggtg gagtgcagt gcacgatctc ggctcactgc aacctctgcc 1140
tcctgggttc acgccattct cctgtctcag cctcctgagt agctgggact acaggtgaat 1200
gccaccacgc cgggctgatt tttgtatttt tagtaaagat ggggtttcac catagtggtc 1260
aggctgttct ogaactcctg acctangtga tccaccnnn 1299

```


<210> 891
 <211> 339
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(339)
 <223> n = A,T,C or G

<400> 891
 acttagacct ggtatggaga cccacagggg tgggaaaggg cttccctctg ccttgacaat 60
 ttccttgaat atccagccca gtaagaatat tttttacatc atgactttag ataacacgtt 120
 tataactgaa gcaaaaagctc gaagaaacaa cacttaactg tactacagga gttacacccc 180
 atgcattttt aattccaatt ttgtgtgtgt gtgtgtgtgt gtgtgtgtct gtctgtgtgt 240
 gtgtgtgtnn nnnnnnnnnn nnnnnnnnnn nnnnnatgcg gtctcactat gttgcacagg 300
 ctgttcttga atgcgggggc tcgagccatc caccagcct 339

<210> 892
 <211> 1092
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1092)
 <223> n = A,T,C or G

<400> 892
 nnnnnnnagt caaggcaggg accttgggtct gtgccactgt gacgcagaga tgtataatac 60
 cagtactcat aagaggtcca tctctaaatt gccctcctct tacttcttcc ccttgccctca 120
 tgttttttct ctttaatgac tagcatcgaa actcttttaa tggggcaggc ctgtgttctt 180
 atctcaggaa tagtaagaaa aggggggttg gaacagggga aatccagaat aaagacttga 240
 gaaagggaaca gagtgggtga tggcagctat gaagaaaaaa cagatcagaa gaagagtcct 300
 ggcaccttag gaagagaaaag tgtcacagac acgaggccta ggctagagag atgggtgtagg 360
 tggtagctgc tgtgaagaag aaatgacaac aggctggagc tgttccctga aacctgtggg 420
 aaggaagaga gacctgcaca ggccggcact tagcttgtgg agaaggtcct aactcaacac 480
 tgcaacttta agctggctta acttgtccaa gttccagatg accaacaagg acagctatag 540
 aactctaac tctgtgccaa ttacccaagg ccttcagggc cctgggacct attccatgat 600
 agtggtagcc taagtgaacc catttcagcc actcagatga taggggtggc aacgaccggc 660
 ccggtgttac cagcctgtga cgcaacagag gcaacgcca cagggggggc ataaatcaaa 720
 aggtctgtta acagcgcaac ataggcgctt gggttggccc tcagagacct ctctctctgtg 780
 ctccggctcc aacagcgtct ctcccgccat gtgccacata ggatccgcac ttgtgtaggg 840
 cgactgagg cgggattgat cccacgaaca cactgaacac aacaacaagg gagagaagac 900
 gacaacaacc cagcagcaga cgaggaaaca tacacgtacc ggagaagcac caacaatata 960
 gcaagacacc acagcgaaca caaccacaag gagcacacac acgaagtaca ccacacccca 1020
 cagaagaaca actaccatac atacacaata gcacctgaca cagccaggca actannnnnn 1080
 nnnnnnnnnn nn 1092

<210> 893
 <211> 2040
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(2040)
 <223> n = A,T,C or G

<400> 893

```

cgacccaacgc gtccgcgcgt caggccgcctc ctctcggctc cgcgcctcctt ccctcgcgcg 60
tgggcacccg ccccgagcg gtgagagcgc gtgcgcgcgc gcccttctcc gtgggcgagc 120
cagccagtcg cgctgcacac gctcgcagtc tgtgggccct ccgggagggc gcggaggtca 180
ccgcggggag aggggcgggc gcagcatggc agcctcctta cggctcctcg gactgcctc 240
cggctcctcg tactggagcc ggcggctgcg gccggcagcc ggcagctttg cagcgggtgtg 300
ttctaggtca gtggcttcaa agactccagt tggattcatt ggactgggca acatggggaa 360
tccaatggca aaaaatctca tgaaacatgg ctatccactt attatttatg atgtgttccc 420
tgatgcctgc aaagagtttc aagatgcagg tgaacaggta gtatcttccc cagcagatgt 480
tgctgaaaaa gctgacagaa ttattacaat gctgccacc agtatcaatg caatagaagc 540
ttattccgga gcaaattgga ttctaaaaaa agtgaagaag ggctcattat taatagattc 600
cagcactatt gatcctgcag tttcaaaaag attggccaaa gaagttgaga aaatggggagc 660
agttttcatg gatgccctg tttctggtgg tgtaggagct gcacgatctg ggaacctcac 720
gtttatggtg ggaggagttg aagatgaatt tgcgtctgcc caagagttgc tggggtgcat 780
gggctccaac gtgggtact gtggagctgt tgggactggg caggcggcaa agatctgcaa 840
caacatgctg ttagctatta gtatgattgg aactgctgaa gctatgaatc ttggaatcag 900
gttagggctt gacccaaaac tactggctaa aatcctaaat atgagctcag gacgggtgtt 960
gtcaagtgc acttataatc ctgtacctgg agtgatggat ggcttccct cggctaataa 1020
ctatcagggt ggatttgga caacactcat ggctaaggat ctgggattgg cacaagactc 1080
tgctaccagc acaaagagcc caatccttct tggcagctct gccatcaga tctacaggat 1140
gatgtgtgca aagggtact caaagaaaga cttctcatcc gtgttccagt tcctacgaga 1200
ggagagagcc ttctgagtgt gccctttggc caggacact gttgggaacc aaactctgtc 1260
ttggagctc cttttagctc actccacaag taaatggatt taatcaaagg tcacctatct 1320
gcttttgatt gtctaggtca cagtaatccc taggattttt caccgcttat tctttttgtc 1380
tttttaacaa acatattatc cgaatttttt ttctgcaagc cactgatagt ctctgctaac 1440
tagcttaatt gaccttttta caaagtttga tccccaagca tcctcaacta aatcattgaa 1500
tacttcaatc aggatattat ctgctttact ttacaaataa aaccaaactc tttgtcaaca 1560
ggatgaaacc catcttaaag gaaagaaaag gaattggtgt gaagagagaa gttagagaag 1620
ggaaatgcag tgaattacta tctgtgtcca tcaggaagtt tgcctgttta accaaatggt 1680
tactgcacta ccagggttac tggtttattt tccaggagc tgataaagca ggagaactgt 1740
tgctgcatgt tttctatttg gactcgtca caatatggta ggatatccct caccaactcc 1800
cgacactcag cagacttgtt tttatatatt tttcttctt gtacattctt actacgtatt 1860
ttttgactta agaatgacat ctttagacgc atttcagagc caatgatgat atttgcttta 1920
gataattatt atattattat aaatatagcc atattatttt gaattcaaat aaatttctat 1980
actggccgcc taggatgtaa acccgagtaa ctcgaacaat atggttataa atatataann 2040

```

<210> 894

<211> 2497

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2497)

<223> n = A,T,C or G

<400> 894

```

nnnggcgggc acgccccctc gccgcgggcc cctccccgc ctctctccac cgcctcctct 60
ggctccccgg tcagagggcc ggagcgagaa gatggcgaa acgtacgatt atctcttcaa 120
gctcctgctg atcggcgact cgggggtagg caagacctgc ctctgttcc gcttctcaga 180
ggacgccttc aacaccacct tcatctccac catcggaatt gattttaaaa ttagaacgat 240
agaactagat ggaaagaaaa ttaagcttca gatatgggac acagcgggtc aggaaagatt 300
ccgaacaatc acgacagcgt actacagagg agccatgggc attatgctgg tctatgacat 360
cacaatgaa aaatcctttg acaatattaa aaattggatc agaaacattg aagagcatgc 420
ctcttccgat gtcgaaagaa tgatcctggg taacaaatgt gatatgaatg acaaaagaca 480
agtgtcaaaa gaaagagggg agaagctagc aattgactat gggattaaat tcttggagac 540
aagcgcaaaa tccagtcaa atgtagaaga gcatttttt acacttgca gagatataat 600
gacaaaactc aacagaaaaa tgaatgacag caattcagca ggagcagggt gaccagtga 660
aataacagaa aaccgatcaa agaagaccag tttctttcgt tgctcgctac tttgatgaac 720
tctttctgag agactgcagc acacctagag ggcctttcc tgcttctctg aaagcacagg 780
tcaccagccc tcagaatcac acctcccgcc tgctgctgag agcaccactg aacttagacc 840

```

tctcaacaca	gtatgccaa	tggtatccag	cctcatggcc	tagcaaaaga	acagactccc	900
tttttcaa	atggaagcaa	tgaagtggag	acacatgcag	gacctaaactc	gttttttccct	960
tgttttatta	cctgttgca	aagcgggttat	ctttcttttt	tactttgcac	atcagtgtta	1020
gcctttccct	atttcagcac	aatcttagac	tcataatttg	acacttttgt	gtcgtgaagt	1080
tctagacaaa	tttgtagcat	tggaatgtt	aaaagagcat	ttacagcaga	ggtaaatata	1140
ctaaaattaa	aggggtattg	gtctggttca	tatggtcaaa	tattactgcc	ttggtagcat	1200
ttatttaagg	gctttttctt	aaataagaat	cattaaagtc	attaaaaaaa	tttactgaaa	1260
tgcccatctt	gtcatcaaa	gccacaattt	ctttatttct	tcagattaag	agctttgcct	1320
catccccgac	ctgttttcca	gagtctgggt	agctgaatga	atcactttta	aatgattacc	1380
tctgccta	ctatagaaac	tgcatttgga	aatcaccata	atctcatttt	tccctggggt	1440
ttgtatttgc	tattctttcc	catgtttgac	ttaagtgtaa	tcactcttaa	gtaatatattg	1500
aacattatta	tctgtttcta	tttgtgaact	tcttgagctg	aaattttacg	tgggctgaga	1560
gatataccat	ttagggtttt	agtgcagcat	ctaactgtga	ttctgtcaat	aaggatatgt	1620
aatataattt	tctcagggtt	cactccttag	ctggctgggt	tagttgtaat	accaaatctc	1680
taccataatc	cctgtctaca	aaagttaggt	ttagatttta	gtttgcggaa	accttcccta	1740
tatagagaca	gattaacttg	ttgatataaa	tttaatagag	ctagctcttg	gtaatgggtga	1800
aaataatgag	ttttgggttg	ttttatttgg	cagatgtttt	tagaaataaa	agtacttaga	1860
cctagtgcag	cctctaggaa	aagtcttgcc	ttttcattag	agaaaacagg	accaagggtt	1920
cagttttcaa	acagctgttg	ttgaatgtgt	agaaccaggt	tccatctgtt	ttgggttcatt	1980
gttacagaac	ttagtccagt	catttgggct	aaagccaacc	aaaagcttag	ttgcctttct	2040
caacaaacac	tggtactggg	atacttttgt	agatgaacc	atcacaagg	atttagtgtt	2100
aacttgtgtg	ccaaattcag	atcactatgt	cgttgttgct	ctagccttca	gtgtcataac	2160
acagggggga	taaaacagag	gggatgagg	aatgaattc	tgtaataat	tattcttcct	2220
ggtagtcctg	ttttgcttca	caaaggctac	tatcatgctg	gatagataag	aacaggagat	2280
ggcagtgga	agggattgct	tggtaccaca	gagaattctc	ttcaaattaa	gatatgtcat	2340
tagaatgctt	ggaccagtca	atcttttgta	cttatttgaa	aatntagga	caatttaaca	2400
gctgcaaata	tgcccaaagc	tattttta	agatntacta	aacttattgg	tggccaantt	2460
cagcctcctt	aatttttttt	ttttgggaan	tacctan			2497

<210> 895

<211> 3991

<212> DNA

<213> Homo sapiens

<400> 895

ccgcgtcgca	gctcttcaac	atcatgatca	ccccattagc	ctccggcggt	ggctgcgggc	60
ccatcgggag	cccctccttg	gggcctttcc	tgtccacgga	gaccgcgggc	accgccagca	120
gctgcccccc	cggaggctct	cgggcagggg	ccgggatcga	cgaggggggc	ggcggagggtg	180
gcaggggctg	ccggaagccg	tccaccgcaa	cctttctata	gtgacttcca	gtcaagggtt	240
tggtgtatta	agagctgacc	catagccagc	tgcatgcact	gtgcaaaaat	ttagagaaac	300
taaattttgc	aaactttact	ttgccactt	tttattaata	catacatagt	aaaaagaata	360
tatttctcca	tgaactta	aatgcaaaag	catccaaaga	ttttaatgcc	aattcacatt	420
atactgtgat	gcttttatag	ggaaagtct	tttgtaaaag	aatgctctct	ccagaaaaaa	480
gcatttgggt	atattattag	gatactgaag	aatttctcca	catttagaaa	cattccaatt	540
ttattccttt	cagaaaaatt	attaatacca	ctcactcaga	cttcagttct	aggtgtgatt	600
ggtaagcctg	aagcaagcat	tccattgaga	aaagtaaaat	gtgaatgtca	tgatgaatgg	660
aattctcctt	gatactagaa	tgttaccagt	gtagcaactt	aaactgtcca	ggcatagtg	720
agagcctgtc	tatgttctta	cagtaattca	gtgttcacg	atgcaatcca	ggatgctcac	780
agagtgaatt	gagtccaatt	aaagtccaca	aatccacga	actctgggtta	agtactttta	840
aaaaataaatc	tgacaacctt	tatctttact	tctctgtata	acagttttac	aaatcaagga	900
cttcaattat	tgggtgactt	acttgctccc	aatatccac	ttctaactct	cccaccaca	960
ccactcccc	caaaaaataa	actgaattgg	cagaggcagc	tgtatgaaga	acctgcagag	1020
cagacatgcg	acagcatccc	tgggatgttt	cttttcccct	caagttctct	gaagaggtaa	1080
atactattag	tctgatgttg	cctagtagag	aagcctatgc	tcaattaaga	ttcaagcaaa	1140
attgagaaga	aaagtatttt	tctcttgcca	catctatttt	tcttgggctt	tcaacaacag	1200
ctagaataag	cttcagaaac	ttttatgatg	gactaaaaag	cactgtggat	gtggagaaac	1260
agaaatagat	ctttgccaca	gctggaagg	agccttagga	cagcagtgct	acttcttccc	1320
tatcacactc	aaataaatg	ttcaaatgac	agactttttt	taagtaatta	tctcattcat	1380
ttaaaatgaa	gtgatcagga	acccacaccc	actgtgtatt	tggactta	aaactgtatct	1440
gcttcttaga	gcacgcag	aagtagctct	caataatact	aagggaagct	tccgtgctaa	1500
agtaccgccc	atccctaaac	tagagtactg	ccaatactat	agcagctggt	gacagacatc	1560

```

gtgttaagtg gcacagggaa tggaaatgct ctaggagagt tggccccaa cattaatatg 1620
aatatgctct ggtgaaccag gggaaaatcc gacccatgtg caaaagggtt ctattttccc 1680
acttaattag catcctgcta cagggccaca cctgccatct tgggtgggtga gtttagatac 1740
catacacttc tccaggagga gtttgacaac atggtcacac agttgcaaag tgcacaaagc 1800
tcaaggcaca gagtagaaga aagttgtgaa ctgatggggg aaagttctag caaaagcaga 1860
gttagcattt tcctttaaca agactttcta atgctaaaca aagaccaact cttttaaaag 1920
gggttgtttt ggttggtggg gaaaaatact gtactgtaat gatctgcttg gttttaaaag 1980
aaaagagatc ctgacatgtg aaaccaatac accaaaatgc caagtccaca aatgaacaaa 2040
acaagtgtt aaaaaaaaaa ttcttctgct cttatatatt tggaggcaag ctgctgattt 2100
tggctgtcag atttcaacta gaaatgggtc ctttctgaga tgctttttcc tcacagaatc 2160
ttagataaaa ctcatataaa gattgtccca ttcaaaaatc accccaagt ctacagcaa 2220
cgtttttttt ttttagtttt tgttttaaaa ttacaaacca agtaagaagt ccaacatcct 2280
cttccatgaa cagctttgtg acagagctcc tgagtgtgtg cagcccccac tgtgctctga 2340
atacagcttc tgcagctcca gtgtgtcttc ttttcaggaa ggaaagcata ttcaatacat 2400
tcactatctg taccctctgg aacttgaca tgctgacgag ctattataag ccaactcatc 2460
cccagctctc tcccggaact ggtcaccctc tgtaaaacca ttctgtataa gttctctttg 2520
aaatttctga tcttgagcag catattcaga aagttcagat tccaccgccc gagggagaat 2580
gtttggaata aatttagaaa atagagttgg agccatctga acccactctg gtctgagggt 2640
atacaggcct ttcacaatat ttgccatagt tgaaggtgtg acctgaaatg gtgtgactg 2700
ggcttctaaa agtaaaggca ttaggctgta aatgtgcttt tctgcaacat gttccgtaaa 2760
cagctttata aggtcatctt ttaagtctct gttaagcttg gtttcgatgt aaaacttatt 2820
catatatatg aaaagaggca caatgctctg caatgctccc atatattgtc caagagctat 2880
attaaatctt tcaatataga gatctggagg gctggcctgc agctcctttg agactctctc 2940
taagtatta gttatctttt taatcagatc actatacatc tgttccgagt gctgctggca 3000
tacacattta tacacacaac tgtatatctg ttcataggat atggggatat agtcaccagg 3060
actctgagtt aaaagttgat ctatggcacc atccaatttt ggccagtatg tgctcttata 3120
atcttcaata gttataacat tcattaagaa cttggagggt gaggtgttga tgttgatggt 3180
ggagctggcg gtggggcgcg gggccgcctt ggccacggcg gcggccgctg cgagctctt 3240
caacatcatg atcacccat tagcctcccg cgggtggctgc ggcccatcgc ggagccctc 3300
cttggggcct ttctgtcca cggagaccgc gggcaccgcc agcagctgcc ccccggagg 3360
ctctcgggca ggggcccggg tcgacgaggg gggcgccgga ggtggcaggg gctgccgaa 3420
gccgtccacc gcagcctccc agttgttgtg gttctggtcg tccatcatcg cctcgtagt 3480
gccccctcc tcctcttcca tgccttctc catcctgctg gccccggca cccgccgcc 3540
tcacaggcac ctgccgctg tctcaacccc gggccagcgg gcaccgctgc ctcccagat 3600
tacatcgccg gcggcaggaa tgggcgcagc ggagagggtc gcggtgcgca gggctctctg 3660
ctctccgagg ggcgactag cttgaagacg cggctgacgg cggtgggcgc tccggggctc 3720
tagtctggga gaggcagcgg taaagcagcg gcgctcctca cgacgtttta cagcggcttc 3780
caacaggcag ttggaagggg cagctggggg cgcggccagg agggcacgtg gtgcgaggga 3840
ctggccgcca gaaagcggag ccaaaagggg cgggagctgt gagtcaactc cacgcaacag 3900
ggcagagggt cggccgcct cggctggcag ggagctaaca ggggaggcgc gacgggtcgg 3960
gacgggcatt cggcggctcc gcccccgga c
3991

```

<210> 896

<211> 2497

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2497)

<223> n = A,T,C or G

<400> 896

```

nnnggcgggc acgccccctc gcccgcggcc ccctccccgc ctctctccac cgcctcctct 60
ggctccccgg tcagagggcc ggagcgagaa gatggcgaag acgtacgatt atctcttcaa 120
gctcctgctg atcggcgact cgggggtagg caagacctgc ctctgttcc gcttctcaga 180
ggacgccttc aacaccacct tcactctccac catcggaatt gattttaaaa ttagaacgat 240
agaactagat ggaagaaaaa ttaagcttca gatatgggac acagcgggtc aggaagatt 300
cgaacaatc acgacagcgt actacagagg agccatgggc attatgctgg tctatgacat 360
cacaatgaa aaatcctttg acaatatata aaattggatc agaaacattg aagagcatgc 420
ctcttccgat gtcgaaagaa tgatcctggg taacaaatgt gatatgaatg acaaaagaca 480

```

```

agtgtcaaaa gaaagagggg agaagctagc aattgactat gggattaaat tcttggagac 540
aagcgcaaaa tccagtgcac atgtagaaga ggcatttttt acacttgcac gagatataat 600
gacaaaactc aacagaaaaa tgaatgacag caattcagca ggagcaggtg gaccagtga 660
aataacagaa aaccgatcaa agaagaccag tttctttcgt tgctcgctac tttgatgaac 720
tctttctgag agactgcagc acacctagag ggccctttcc tgcttctctg aaagcacagg 780
tcaccagccc tcagaatcac acctcccggc tgctgctgag agcaccactg aacttagacc 840
tctcaacaca gtatgccaa gggattccag cctcatggcc tagcaaaaga acagactccc 900
tttttcaaac atggaagcaa tgaagtggag acacatgcag gacctaacct gttttttcct 960
tgttttatta cctgttgagc aagcgggttat ctttcttttt tactttgcac atcagtgtta 1020
gcctttccct atttcagcac aatcttagac tcatatttgc acacttttgt gtcgtgaagt 1080
tctagacaaa tttgtacatg tggcaatgtt aaaagagcat ttacagcaga ggtaataata 1140
ctaaaattaa aggggtatttg gtctgggttca tatgggtcaaa tattactgcc ttggtagcat 1200
ttatttaagg gctttttctt aaataagaat cattaaagtc attaaaaaaa tttactgaaa 1260
tgcccttacc gtcatacaag gccacaattt ctttatttct tcagattaag agctttgcct 1320
catccccgac ctgttttcca gagtctgggt agctgaatga atcactttta aatgattacc 1380
tctgcctaata ctatagaaac tgcatttgga aatcacata atctcatttt tccctggggg 1440
ttgtatttgc tattctttcc catgtttgac ttaagtgtta tcaacttta gtaatatattg 1500
aacattatta tctgtttcta tttgtgaact tcttgagctg aaattttacg tgggctgaga 1560
gatataccat ttaggggttt agtgcagcat ctaactgtga ttctgtcaat aaggatatgt 1620
aatatatttt ttcttaggtt cactccttag ctggctgggt tagttgtaat accaaattcc 1680
taccataatc cctgtctaca aaagttaggt ttagatttta gtttgcgga accttcccta 1740
tatagagaca gattaacttg ttgatataaa tttaatagag ctagctcttg gtaatgggtga 1800
aaataatgag ttttggttg ttttatttgg cagatgtttt tagaaataaa agtacttaga 1860
cctagtgcag cctctaggaa aagtcttgcc ttttcattag agaaaacagg accaagggtt 1920
cagttttcaa acagctgttg ttgaatgtgt agaaccagc tccatctgtt ttggttcatt 1980
gttacagaac ttagtccagt catttgggct aaagccaacc aaaagcttag ttgcctttct 2040
caacaaacac tgggtactgg atacttttgt agatgaaacc atcacaagg atttagtgtt 2100
aacttgtgtg ccaaattcag atcactatgt cggtgttgct ctagccttca gtgtcataac 2160
acagggggga taaaacagag gggatgagg aaatgaattc tgttaataat tattcttct 2220
ggtagcctg ttttgcttca caaaggctac tatcatgctg gatagataag aacaggagat 2280
ggcagtgga agggattgct tggtaaccaca gagaattctc ttcaaattaa gatattgcat 2340
tagaatgctt ggaccagtca atcttttgta cttatttgaa aatntagga caatttaaca 2400
gctgcaataa tgcccaaagc tatttttaat agatntacta aacttattgg tggccaantt 2460
cagcctcctt aatttttttt ttttgggaan tacctan 2497

```

<210> 897

<211> 2664

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2664)

<223> n = A,T,C or G

<400> 897

```

nnccggcctg cgcgctcggt ctgccagccc tcccttgca gttccggctc ctctctatc 60
ttcacgcgca cgctaggccc tgagcccagc ctccacgtct cgcgcgaac tccacatcct 120
ggctcctatc tctgccttcc aggcattctc cagctgcacg ctccggcccg gctcagagcc 180
ctaagccctg cctcccggtc ctggccgggt ttcccagaac tgacggcgcc ctctccgccc 240
aggcccaagc gcgagccctt cctccacacc cgagtccgag ccccgcgctc cggattcgga 300
cccgctgcc tggggcggtg ctgcaccagg tgccgggtgt gcaggcgtct cggagcgcca 360
ggtgcagctt cctgggtcaag atggctgcgc cctgcccgtc ggtagccggg ctctgccac 420
gccgcccggc ctgctttccc gccggggccc cgctgctgcg cgtgcctctc tgctcctgt 480
gctggacccc ggcggtctgt cgcgcggtcc ctgagctcgg gctctgggta gagacagtca 540
acgacaaatc aggacctttg atatttagga aaactatgtt taactctaca gatatcaagt 600
tatctgttaa gtcattccat tgttctgggc ctgtgaagt taccatagtg tggcatttga 660
agtatcatat ctgtcacaaat gagcattcta atctggaaga gctgttccaa aaacataaac 720
ttagtggtga tgaagacttt tgtcattatt tgaagaatga caactgttgg acaacaaaaa 780
atgaaaactt agattgcaac agtgattcac aggtgtttcc ctctttgaat aataaagaac 840
taataaatat cagaaatgtt tcaaaccagg aaagatcaat ggatgttgta gccagaacac 900

```

```

aaaaagatgg gtttcataac tttattgttt ctattaaaac ggagaataca gatgcaagct 960
ggaatttgaa tgtttctctt tctatgattg ggccctcatg atatatctct gcatcagatt 1020
ggcccctaata gatttttttac atggtgatgt gtattgttta tatattatat ggcatactct 1080
ggctgacgtg gtctgcctgt tattggaaag atataattaag aatccagttc tggattgcag 1140
ctgttatttt tttgggaatg cttgaaaaag cagtttttta tagtgaatac caaaacatca 1200
gcaacactgg actgtcaacc caaggcttat tgatatttgc ggagttgatt tctgcgatta 1260
agaggacgtt ggctcgccct ctcgatgatca ttgtgagcct gggctatggc attgtgaagc 1320
ctcgtttagg aacagtcattg caccgggtga tccgactggg gcttctatac ttaatctttg 1380
cagctgttga aggcgtgatg agagtcattg ggggttctaa ccatttagct gttgttcttg 1440
atgacattat ttttagcagtt attgactcca tttttgtgtg gttcattttt attagtttgg 1500
cacaaactat gaagacccta aggctaagaa agaacactgt gaaattttca ttatatagac 1560
attttaaaaa tactctgatc tttgctgtgc tggttcttat agtgtttatg gggtaggaca 1620
ctaagacatt tagaattgca aaatgccaat cagattggat ggaacgctgg gttgacgatg 1680
cattttggag cttccttttt tcgcttatcc ttattgtaat catgtttttg tggagaccat 1740
cagcaaaaca tcagagatat gccttcattg ccttaataga tgattctgat gatgaaattg 1800
aggaattcat ggtaacttct gaaaatttaa ccgaaggaat aaaattaaga gcctcaaaat 1860
cagtttccaa tggaaacagc aagcctgcca cttctgagaa ctttgatgaa gatttgaagt 1920
gggtagaaga aaatattccc tcttcattca cagatgtagc tcttccagtg ttagtggatt 1980
cagatgagga aatcatgacc agatctgaaa tggctgaaaa aatgttctct tcagaaaaga 2040
taatgtgatt ggaacccgta taagaaatgt agttaagcct gaaggactat ccttcatcaa 2100
gactgaaagt gagctttgat ttgatattgc ctaaaaattt ttattgtgtt atcttggag 2160
tctgtgtatc aaaatgaaga attcagatgg taggaggttc tatagtcctt ttaaagctga 2220
ctcttgagtg tcagttgaat atccattaaa ttggatttgg aaataacctg aggaaagtat 2280
tatgataaag atctgcacag atgctcttta gctgataggt ggcaggcctg tgggtttggg 2340
ttctccctct tttctctgga acatatgaca attcagatt aaagaaaaat gttttttaat 2400
aaataccctt ggtctttctt ctagtccact ttgaggtaga tattgtgatt ttctggagta 2460
tagtatatcc gtgtctctgt gtcttaggtt tactagatgc aataataact ctctttgaca 2520
tttgtagtga agtgatttga tattaagtta aacagttaat gtttgaatat tggcatattt 2580
ataggttttt tccgctcccc cccatgaaat aaagttattt tctcattccc aaaaaannnn 2640
nnnnnnnnnn nnnnnnnnnn nnnn

```

<210> 898

<211> 2084

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2084)

<223> n = A,T,C or G

<400> 898

```

nnnccgcttg agactacagc aagtggatgat ggtccccttc tccatgtgaa ctgtttaagc 60
gtttttattcc caaactcata aaggagttta tgtagttttc actctgtccc catccctaag 120
gtaactgctt ttggctgaaa accatttacc ctagagctag aaactttggg gacaataaga 180
aggttgtgac ctttctagta tatgccaaat acaagatttt tttttctttt tagtatgaaa 240
tacttttcac aaccgcattg tttgttgtat ggattcacaa aactaggacc atttgggtatc 300
tgtcttcaga aagttttttac gtctgatatc cttgttggtg accgctgttt ctaggggtat 360
catatcatcc catttaaaag aaatgcaaac tgcagagtat agagtgcagc tacacatata 420
tataatgggg tggatagttt atagtgtgct cattgctgct ttgttattat tagtgttgag 480
agttcctgtg ctgtgtggaa ttcaacacta atctgctgta agtatggagc tgggtatgtg 540
gaacatttgc agggaagtgt gtttctccgc ttgtttttcc aggggtattc gagatgacat 600
tgaagaggaa gatgaccaag tgagttccta tgcagtattt ctatctttta tttttatcca 660
caaagtctat actggggaca agctagagct tgccttcact caaaatggcc attcctgaca 720
ttcagcaggg aatgtcattt gatttgtctc ttttgtacct gtgtgaccaa ttggtagtac 780
atagattcac atggctttcc cccatattga agatggaatt tttgatcaac tgtgacatcc 840
aaagcaataa cgagctttat tcagcttgct tctttttaaa tccaaaatta atgtttattc 900
tgataaatca agtggtagag tagtgtggga tctattgatg gcctctggta acatctaacc 960
tctgtctctt agtaagtgtc ctgtttgtgg ttcttgtatt tcaagctgga acattaatta 1020
ctgtccatta gtctcttttc cccattgtt cagttgtgga gtgatgagaa tcagagttag 1080
tggtagccgt ttccaggttt gtgaccttc taattagcgt taacttccaa acttggattg 1140

```

```

ttaaagccac agcatgtgtt ctatggctct gggcagggtt gatagacacc ccactccagg 1200
aaggctgtgg aacagacaga tttgtaagtc ttctattaaa caagttgcaa catttaatag 1260
tactaaactgt ttaattcatt tcttctgatt gttcttctga atattgctat tattaagga 1320
atcattgcta gtaaggatct tgccttactt ggtaggtagt ttaactgtgc aattatctgg 1380
tacactatgt gcgctaatta caggagcaga aacattctca attgtacttg ggtgtgatta 1440
tggtctgtgt ctttctgca ggaagcttat ttctgataca tggcagaaaa cccaactgct 1500
ggtgtggctc acgaggaaga ggaagacaat ctagaatatg atagtacgg aaatccaatt 1560
gcacctacca aaaaaatcat tgatcctctt ccccccattg atcattcaga gattgactat 1620
ccaccatttg aaaaaaactt ttacaatgag catgaagaga taaccaacct cactccacag 1680
cagttaatag atctccggca taagctcaat cttcgggtaa gcatcattaa gctcaatatt 1740
cttaatatta atgttaatta gtccagattt agtattattg gttatctaaa ctaataacct 1800
tgaatttctt ttctaattgt ctctgaactg tctttgccag agtaattatt atatcccttc 1860
tggtcatgtc tcttaatttg attgttttag tcttctagat gctgttttag gataggatca 1920
ttttctgtgt tcatatttca gtcagtttta tatgttctgt gctggatggg ctagtgtatga 1980
agggtgggag tccccatcta aaggaagagg aaacaaaagg aatagatgtt aacagatgat 2040
atcttagaat attttgaaat gaagataaac ttgtctgtca aann 2084

```

<210> 899

<211> 2084

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2084)

<223> n = A,T,C or G

<400> 899

```

nnnccgcttg agactacagc aagtggtagt ggtccccttc tccatgtgaa ctgtttaagc 60
gttttattcc caaactcata aaggagttaa tgtagttttc actctgtccc catccctaag 120
gtaactgctt ttggctgaaa accatttacc ctagagctag aaactttggg gacaataaga 180
agggttgtag ctttctagta tatgccaaat acaagatttt ttttctttt tagtatgaaa 240
tacttttcac aaccgcattg tttgttgat ggattcacaa aactaggacc atttggtatc 300
tgtcttcaga aagtttttac gtctgatatc cttgttggtt accgctgttt ctagggggat 360
catatcatcc catttaaaag aaatgcaaac tgcagagtat agagtgcagc tacacatata 420
tataatgggg tggatagttt atagtgtgct caattgctgt ttgttattat tagtggttag 480
agttcctgtg ctgtgtggaa ttcaacacta atctgctgta agtatggagc tgggtatgtg 540
gaacatttgc agggaagttt gtttctccgc ttgtttttcc aggggtattc gagatgacat 600
tgaagaggaa gatgaccaag tgagttccta tgcagtattt ctatctttta tttttatcca 660
caaagtctat actggggaca agctagagct tgccctcact caaaatggcc attcctgaca 720
ttcagcaggg aatgtcattt gatttgctcc ttttgtacct gtgtgaccaa ttggtagtac 780
atagattcac atggctttcc cccatattga agatggaatt ttgtatcaac tgtgacatcc 840
aaagcaataa cgagctttat tcagcttgct tctttttaa tccaaaatta atgtttattc 900
tgataaatca agtggtagag tagtgtggga tctattgatg gcctctggta acatctaacc 960
tctgtctctt agtaagtgtc ctgtttgtgg ttcttgtatt tcaagctgga acattaatta 1020
ctgtccatta gtctcttttc cccattgtt cagttgtgga gtgatgagaa tcagagttag 1080
tggtagccgt ttccaggttt gtgacctttc taattagcgt taacttccaa acttggattg 1140
ttaaagccac agcatgtgtt ctatggctct gggcagggtt gatagacacc ccactccagg 1200
aaggctgtgg aacagacaga tttgtaagtc ttctattaaa caagttgcaa catttaatag 1260
tactaaactgt ttaattcatt tcttctgatt gttcttctga atattgctat tattaagga 1320
atcattgcta gtaaggatct tgccttactt ggtaggtagt ttaactgtgc aattatctgg 1380
tacactatgt gcgctaatta caggagcaga aacattctca attgtacttg ggtgtgatta 1440
tggtctgtgt ctttctgca ggaagcttat ttctgataca tggcagaaaa cccaactgct 1500
ggtgtggctc acgaggaaga ggaagacaat ctagaatatg atagtacgg aaatccaatt 1560
gcacctacca aaaaaatcat tgatcctctt ccccccattg atcattcaga gattgactat 1620
ccaccatttg aaaaaaactt ttacaatgag catgaagaga taaccaacct cactccacag 1680
cagttaatag atctccggca taagctcaat cttcgggtaa gcatcattaa gctcaatatt 1740
cttaatatta atgttaatta gtccagattt agtattattg gttatctaaa ctaataacct 1800
tgaatttctt ttctaattgt ctctgaactg tctttgccag agtaattatt atatcccttc 1860
tggtcatgtc tcttaatttg attgttttag tcttctagat gctgttttag gataggatca 1920
ttttctgtgt tcatatttca gtcagtttta tatgttctgt gctggatggg ctagtgtatga 1980

```

aggggtgggag tccccatcta aaggaagagg aaacaaaagg aatagatggt aacagatgat 2040
atcttagaat attttgaaat gaagataaac ttgtctgtca aann 2084

<210> 900

<211> 1566

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1566)

<223> n = A,T,C or G

<400> 900

nctataggga gtcgacccac gcgtccggcc ctttcttctt ttaatctccc ttctgtcagt 60
tgattttcag gcaaccttca gaaggcagag aagacgtctg cccttggctc ctgcactagc 120
gacttaaagg atgactcctg ttaagtttca ttatcctagt atcagcctga atggactagg 180
acacattttt attttaaagt ttgagctcta gcaatggagt cagacagcaa cacagcttgg 240
ggagccacct ctgtcaacaa gggaggagaa agttgagaag tgccatgaaa atgtccctgc 300
ttcatactgg gcctctcagc aaacttctct tgctgacagg aattatttcc ctctatgatt 360
gtatttttaa gaggcgcta gattatgatc agaattgca ccgagatgac agagaacatg 420
caaaaagcct gggacttcat gttaacgaag aggaacagga gaggccggtt ggagtgtctga 480
cgtcttctgt ctatgggaag cgcataatc agccattga gcccctaaac cgggactttg 540
gccgtgccaa ccattgtcag gctgacttct acaggaagaa cgacatcccc agcctcaagg 600
aaccgggctt tgggcacatt gctccatcct gaagcatccc cgtggcccac agggcatgtc 660
cgataccctg tggcctggca agtttgaca gcgagaaggt ggcatctgga gcctcctttc 720
cccttctcat gacgcctagg agcttggcta tgcctgtgtt gcattctctac agtgggacac 780
atgaacacgt tagcagcccc cctcaggttg ctgggttagg agcctgacca acaacacctt 840
tagtaacatg gaagagtctc tgatgtgatg attttcagct ggaattatatt ttgatcaaat 900
gaatctggag accgattcat tgtgagcacc tgaataaaat gaaaactttg tttccccttg 960
gtaactgttg ggttggtttc tgttcaactg ctctctacat ttgccaggat tctttgggga 1020
ggcagtcaca ggagtggagt gcagttgctt tccccacgag ttaggggaac tcctgctgcc 1080
tgaacacaaa caaccctgac atgttccctt ctccaagagg agatgtgatg acaattgtct 1140
tttggcacia ttgaactcta gaaactccat ttttgttttt ccagaggctc gaatcccaaa 1200
taacagaatt ttgtgcagta gggaccagga gccctagtaa ggatgggtgg ccctgggtggc 1260
cagcaatgct cactattact gctcagagag agggggccag tcatgggaag aggcctagatt 1320
tcggtgttca acaaacttgg gtaaaattct ggttgcctgca ttttctagat ttgtgttcta 1380
gggcaagtca tatcatctac atgagcagac atttctctcat atttaaagtg gaatttccaa 1440
acctaagaaga gttcatgcgg gaggcaatga gctgctggag cacaggcata acacaggtac 1500
ctgcccgggc ggccgctcga tttgctattg gagcacaacc tcttttggac catcaataca 1560
cagtgc 1566

<210> 901

<211> 863

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(863)

<223> n = A,T,C or G

<400> 901

tccgccgact cgcgcccgcc gctgaggttc ctgcgtgaag accagctggg agcccaactgc 60
ctgctgccac ctccaactcc ggccccctca ccattgcact cctggacgag ccgctcgacc 120
tgaagctgag tatcaccaag ctccggcgcg caagagagaa gggggagagg acgctgggtg 180
tggtccggcc ccgtgctctg cacaggagc tgggcctggt ggatgacagc cccacacctg 240
gctctccagg ctccccgccc tcaggcttcc tgctgaactc caagttcccc gagaaggttg 300
agggacgctt ttcagcagcc cctctcgttg acctcagcct gtcaccacca tctgggcttg 360
actccccaa tggcagcagc tcgctgtccc ccgagcgcca gggcaacggg gacctgcctc 420
cagtgtccag tgcctcggac ttccagccac tgcgctatatt ggatggtgtc cccagctcct 480


```

tccagttctt cctgcccctc ggctccgggg gggccctgca cctgcctgcc tcctccttcc 540
ttacccctcc caaggacaag tgctctctgc cagacctgcc cctgcccagg cagctgggtg 600
gtcgtctggc caagtgtaac cagctctttg agctcctgca agacctgggtg gaccatgtca 660
acgattacca tgtcaagccc gagaaggatg cgggggtacgc catggagcag agcatcaaga 720
gtgtgctggg gaagcagacc atcgcgacc agcagcagca gtcaccaac ctgcagatgg 780
cagcagtgaac aatgggctnt ggagatcctc tctcaccttt gcaatcgatg gcggctcagc 840
ggcagcgggc gctggccatc atg                                     863

```

<210> 902

<211> 197

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(197)

<223> n = A,T,C or G

<400> 902

```

nnncgaattg gagctccccg cggtggcggc cgagggtacac agaaaagcgg ttaccagcac 60
aggactctgg gttcctgtcc tacctcttgc acttgggcaa aggacttaac ctcccttatgc 120
ctctgttgct ttgtataaaa tagggataat tatggtaata ccacagtttg ttttgatgat 180
taagagttga tacatat                                     197

```

<210> 903

<211> 197

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(197)

<223> n = A,T,C or G

<400> 903

```

nnncgaattg gagctccccg cggtggcggc cgagggtacac agaaaagcgg ttaccagcac 60
aggactctgg gttcctgtcc tacctcttgc acttgggcaa aggacttaac ctcccttatgc 120
ctctgttgct ttgtataaaa tagggataat tatggtaata ccacagtttg ttttgatgat 180
taagagttga tacatat                                     197

```

<210> 904

<211> 1621

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1621)

<223> n = A,T,C or G

<400> 904

```

nnnnnatgaa ttttaattct tccactactg ttgtggcttt tgcaaattac taaattttctc 60
tgtgactact ttccatttc ttaagtaatt tggttggttt ccaaagtcata ataattgtgga 120
tgtagtggtt tgagctcttt ggaaaaaagg actctacata aattaattag acaattcatt 180
tctaaataaa atctcaaaat ttacaataag ttgaatgtaa atgaatgcag acatgcggga 240
ttctatttag cagcataaat tgctgaaatg aaattcagaa aagaacacac aaggcagaca 300
aagacaaaag tattagagac aagaaaaata cgaaaacatg agtaaacagg cattttaaga 360
tcccctccgc agagtcaatt tcttagcata ttgaaacca ttaactatac ttttcttttt 420
cattatttta aggcaaattt gataaaatag tcagtgggtga ggaagtatat agtgtgtttg 480
tggatttaat atattcatac tctttctcta aatgttctag acaactaaaa agctaagaaa 540
aaaacacatt ttagatattc tttatcttta aaaatacata taaatatgtg tactctatgt 600

```

```

tgttttttat tgtgtgaaat tttattttac taataatatt tttaatatat tttactaat 660
tatcataaat taagagtatt gtatccaaag cagccagaat attagatgtg gtcataaaat 720
aagtttccaa attttgtctg aataactagg attagaaaga agtaactaaa aaatggtttg 780
gacattcaaa tttggataga aataaaatft attttcataa gtcaatccta acacttgagc 840
ttcatgtaaa ttttccaaag tcattcatat tttgatcatt actgtcggac ccacaaatat 900
ttggaatttt tttttaaatt aaaaatgttc ccacttaatt gctttgagct cgctatgagt 960
tcctggaata ttttgtccaa gcaaacttat aattacaaac actgttggtta cgctattcaa 1020
ttagaagtct gatcatgcca cactgttctt ctgaattact ttttaaatga gtgatttggt 1080
ctggttcact tttattaaaa ttattcctta gctgttcctt atagtgaac acctacaaat 1140
attcatcagt ataatatcaa aaggagtagc tcaatctcat atatcagttt gactactttg 1200
agataggtaa gcaatgcaaa taaaataaaa ataacagaga gagaatgctc tcaacataga 1260
gccacagatc ttgcattaag ttgccctcta atcacagggt tttctcacag acttttcttt 1320
caagatatgt agaatgcatg agaaacgagc aatgtctgtt attttctgaa aagctgcctt 1380
ccatgtgagg aagtactaa tttttcattt cacactataa agggcgtgaa aaggcaaac 1440
agaagaaggc taagggttct gtgttacaag aaggaaagggt gagttctgct taaacagaca 1500
ggaacacacac catgcatatt cagagggaat gtcaaattga aaacatttga aagtactaac 1560
aaaatatgaa agatgtttat gttaatatgt tgagttcgga cgcgtgggtc gactccctat 1620
a
1621

```

<210> 905

<211> 1621

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1621)

<223> n = A,T,C or G

<400> 905

```

nnnnnatgaa ttttaattct tccactactg ttgtggcttt tgcaaattac taaattttctc 60
tgtgactact tttccatttc ttaagtaatt tgggttggtt ccaaagtcata ataattgtgga 120
tgtagtgttt tgagctcttt ggaaaaaagg actctacata aattaattag acaattcatt 180
tctaaataaa atctcaaaat ttacaataag ttgaatgtaa atgaatgcag acatgcggga 240
ttctatttag cagcataaat tgctgaaatg aaattcagaa aagaacacac aaggcagaca 300
aagacaaaag tattagagac aagaaaataa cgaaaacatg agtaaacagg cattttaaga 360
tccccctcgc agagtcaatt tcttagcata ttgaaacca ttaactatac ttttcttttt 420
cattatttta aggcaaattt gataaaatag tcagtgggtga ggaagtatat agtgtgtttg 480
tggtattaat atattcatal tctttctcta aatgttctag acaactaaaa agctaagaaa 540
aaaacacatt ttagatattc tttatcttta aaaatacata taaatatgtg tactctatgt 600
tgttttttat tgtgtgaaat tttattttac taataatatt tttaatatat tttactaat 660
tatcataaat taagagtatt gtatccaaag cagccagaat attagatgtg gtcataaaat 720
aagtttccaa attttgtctg aataactagg attagaaaga agtaactaaa aaatggtttg 780
gacattcaaa tttggataga aataaaatft attttcataa gtcaatccta acacttgagc 840
ttcatgtaaa ttttccaaag tcattcatat tttgatcatt actgtcggac ccacaaatat 900
ttggaatttt tttttaaatt aaaaatgttc ccacttaatt gctttgagct cgctatgagt 960
tcctggaata ttttgtccaa gcaaacttat aattacaaac actgttggtta cgctattcaa 1020
ttagaagtct gatcatgcca cactgttctt ctgaattact ttttaaatga gtgatttggt 1080
ctggttcact tttattaaaa ttattcctta gctgttcctt atagtgaac acctacaaat 1140
attcatcagt ataatatcaa aaggagtagc tcaatctcat atatcagttt gactactttg 1200
agataggtaa gcaatgcaaa taaaataaaa ataacagaga gagaatgctc tcaacataga 1260
gccacagatc ttgcattaag ttgccctcta atcacagggt tttctcacag acttttcttt 1320
caagatatgt agaatgcatg agaaacgagc aatgtctgtt attttctgaa aagctgcctt 1380
ccatgtgagg aagtactaa tttttcattt cacactataa agggcgtgaa aaggcaaac 1440
agaagaaggc taagggttct gtgttacaag aaggaaagggt gagttctgct taaacagaca 1500
ggaacacacac catgcatatt cagagggaat gtcaaattga aaacatttga aagtactaac 1560
aaaatatgaa agatgtttat gttaatatgt tgagttcgga cgcgtgggtc gactccctat 1620
a
1621

```

<210> 906

<211> 456

<212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(456)
 <223> n = A,T,C or G

<400> 906
 nccggccctc ctacgtgctt caaaaatact ttgctctcaa ataatagaca tttctctcat 60
 atgttaattg agagatctcc gtatgaaaat attattatga aattgtactg aataattcag 120
 aaattgttct catgggtatct tctttggatg ctggcagtat tattttatta aaacaattta 180
 atactggatg tagaacaatt cagctgtaaa atgctgagaa aaatctttta tattcactct 240
 attcctcccg tgagatgtaa gagtgttcaa ctgttttcaa cgtcagttaa aactactctg 300
 gcccataagc ataaatatgc aaggcaatac agatcatgtg acagtttgca ttcttggctt 360
 gtactcagag aataatggct gaggtagaat attgctctaa acccacctga tacgtatgag 420
 ttataaagg agaaagtgc tatctgatat gtannn 456

<210> 907
 <211> 456
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(456)
 <223> n = A,T,C or G

<400> 907
 nccggccctc ctacgtgctt caaaaatact ttgctctcaa ataatagaca tttctctcat 60
 atgttaattg agagatctcc gtatgaaaat attattatga aattgtactg aataattcag 120
 aaattgttct catgggtatct tctttggatg ctggcagtat tattttatta aaacaattta 180
 atactggatg tagaacaatt cagctgtaaa atgctgagaa aaatctttta tattcactct 240
 attcctcccg tgagatgtaa gagtgttcaa ctgttttcaa cgtcagttaa aactactctg 300
 gcccataagc ataaatatgc aaggcaatac agatcatgtg acagtttgca ttcttggctt 360
 gtactcagag aataatggct gaggtagaat attgctctaa acccacctga tacgtatgag 420
 ttataaagg agaaagtgc tatctgatat gtannn 456

<210> 908
 <211> 679
 <212> DNA
 <213> Homo sapiens

<400> 908
 gcgtccgggtt tgtttttcca aagtatgcct gttcaatagc cattggatgt gggaaatttc 60
 tacatctctt aaaattttac agaaaataca tagccagata gtctagcaa agttcaccaa 120
 gtcctaaatt gcttatcctt acttcaactaa gtcattgaaat cattttaatg aaaagaacat 180
 cacctagggtt ttgtgggtttc tttttttctt attcatggct gagtgaaaac aacaatctct 240
 gtttctccct agcatctgtg gactatttaa tgtaccatta ttccacactc tatggtcctt 300
 actaaatata aaattgaaca aaaagcagta aaacaactga ctcttcacc atattataaa 360
 atataatcca agccagatta gtcaacatcc ataagatgaa tccaagctga actgggccta 420
 gattattgag ttcagggttg atcacatccc tattttattaa taaacttagg aaagaaggcc 480
 ttacagacca tcagttagct ggagctaata gaacctacac ttctaaagtt cggcctagaa 540
 tcaatgtggc cttaaaagct gaaaagaagc aggaaagaac agttttcttc aataatttgt 600
 ccaccctgtc actggagaaa atttaagaat ttgggggtgt tggtagtaag ttaaacacag 660
 cagctgttca tggcagaaa 679

<210> 909
 <211> 704
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(704)
 <223> n = A,T,C or G

<400> 909
 nttacttttta gaataatttta tatctgataa attgaatata tcaggatttg atgtatttaag 60
 agcaattttca aaagataata aaaataagct atagcatatg tcctgaaaac tattttacaat 120
 accattttaa tattttattc atatctatcc gaatattgac caggacacta atgccacact 180
 gcagagttaa taatctgtgc attttcttta ccgtaatgga cagagtatgc tttcttagct 240
 gcctgattca catttctcta aaaatgcttt atcgggttaa gctttcaacc agcttaaaaa 300
 taatgcctct cccatgtctc catgagtggg aaaaaagcaa acaaacccttg tgtttaacaa 360
 taaggtcagc atgacataca gcaacaagag ccagtaaata gaaaatgagg ctgacattct 420
 gggactaggc cagcagtcct gcaacagtc tccagactcc acagctgcat aaggctgtgg 480
 acaagcttgg ggcgagcccc tgtgcctgtg acctgagctc tgccttgga tgaggtcaac 540
 tccaaggagg agaacaacc ccttggtgtt tttctttgct ttggttatag gatattcaga 600
 gaaggtatgt attgaataat ttctgccatg aacagctgct gtgtttaact tactaccaac 660
 acccccaaat cttaaatttc tccaggacag ggggacaaat annn 704

<210> 910
 <211> 1277
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1277)
 <223> n = A,T,C or G

<400> 910
 nngtggcaat aaatataaag caacatttca tcaatgtgat gtttgtaaga aaatttttta 60
 aggcaaatca agtctggaaa tgcattttcg aacgcattca ggtgaaaaac catacaagtg 120
 tcaaatttgc aatcagtcct ttagaattaa gaaaacatta acaaaacacc tggttattca 180
 ttctgatgcc cgaccttca actgtcagca ctgtaatgca acatttaagc ggaaagacaa 240
 gctgaaatca cacattgacc atgttcatga aataaaatct cctgatgatc ctctcagtac 300
 ttctgaggaa aaacttgat ccttgccagt tgagtactca tctgatgaca aaatctttca 360
 aacagaaaca aaacaatata tggaccagcc caaagtttat cagtcggaag ccaagacgat 420
 gttacagaat gtatctgctg aagtatgtgt tccagtaact ctgggtccag ttcagatgcc 480
 tgacactccg agtgacctag tgcgtcatac taccacactc ccaccatctt ctcatgagat 540
 tctgtcacca cagccacagt caactgatta tccacgagca gcggatttag cttttctgga 600
 aaaatatact cttaactctc aacctgcaaa tatagttcac ccagttcgac ctgaacaaat 660
 gctagatcct agagaacaat cttatcttgg aacattactg ggccttgata gcactactgg 720
 tgttcaaaat atttctacga atgagcatca ttcatgagta aatctaaaca ttccacagat 780
 ttttggtatg ttatatgcta atggttagaga tgatagcttt taaatttgtg gggctgctat 840
 tttcttggtt tctctagttt ctcaagtcct cagaacagtt tcaaatcaag aaaactatgt 900
 gtctctgttt actgaacatg aatatttggg caaaatttct ggcataatat ttgaagtgc 960
 catttttgtg attttttaaag attatttagt gctaactttt aatggtttct taaatttttt 1020
 gcaattatta gctgctgata ttatggaagt atttttttta tcatcagtg aaatttttat 1080
 tcttctttag tctcattcct ctcttcttct ttgctagccc ttcttacaac caagtttgag 1140
 gacctgtat cctttaacaa ggaattaaga gtacactgat aattgcaact gtttcttato 1200
 ctaagatgca atattacgtt gtacaaattt ttaaaattga aattaggaga ttgaatttac 1260
 aagaatgcct tggatan 1277

<210> 911
 <211> 1566
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(1566)
 <223> n = A,T,C or G

<400> 911

```

nctatagggga gtcgacccac gcgtccggcc ctttcttctt ttaatctccc ttctgtcagt 60
tgattttcag gcaaccttca gaaggcagag aagacgtctg cccttggtc ctgcactagc 120
gacttaaaag atgactcctg ttaagtttca ttatcctagt atcagcctga atggactagg 180
acacattttt attttaaaagt ttgagctcta gcaatggagt cagacagcaa cacagcttgg 240
ggagccacct ctgtcaacaa gggaggagaa agttgagaag tgccatgaaa atgtccctgc 300
ttcatactgg gcctctcagc aaacttctct tgcctgacagg aattatttcc ctctatgatt 360
gtatttttaa gaggcgccta gattatgatc agaagttgca ccgagatgac agagaacatg 420
caaaaagcct gggacttcat gttaacgaag aggaacagga gaggccgggt ggagtgtgta 480
cgtcttctgt ctatgggaag cgcataatc agccattga gcccctaaac cgggactttg 540
gccgtgccaa ccattgtcag gctgacttct acaggaagaa cgacatccc agcctcaagg 600
aaccgggtt tgggcacatt gctocatcct gaagcatccc cgtggccac agggcatgtc 660
cgataccctg tggcctggca agtttgcaca gcgagaaggt ggcatctgga gcctcctttc 720
cccttctcat gacgcctagg agcttggcta tgctgtgtt gcatctctac agtgggacac 780
atgaacacgt tagcagcccc cctcagggtt ctgggttagg agcctgacca acaacacctt 840
tagtacatgt gaagagtctc tgatgtgatg attttcagct ggaattattt ttgatcaaat 900
gaatctggag accgattcat tgtgagcacc tgaataaaat gaaaactttg tttccccttg 960
gtaactgttg ggttggtttc tgttactggt ctctctacat ttgccaggat tctttgggga 1020
ggcagtcaca ggagtgggtt gcagttgctt tcccacagag ttagggggaa tcctgtgcc 1080
tgaacacaaa caaccctgac atgttccctt ctccaagagg agatgtgatg acaattgtct 1140
tttggcacia ttgaactcta gaaactccat ttttgtttt ccagagggtc gaatcccaa 1200
taacagaatt ttgtgcagta gggaccagga gccctagtaa ggatgggtgg ccctgggtgg 1260
cagcaatgct cactattact gctcagagag agggggccag tcatgggaag aggctagatt 1320
tcgggtgtca acaaacttgg gtaaaattct ggttgctgca ttttctagat ttgtgttcta 1380
gggcaagtca tatcatctac atgagcagac atttctctat atttaaagtg gaatttccaa 1440
acctagaaga gttcatgctg gaggcaatga gctgctggag cacaggcata acacaggtag 1500
ctgcccgggc ggccgctcga tttgctattg gagcacaacc tcttttgga catcaataca 1560
cagtgc                                     1566

```

<210> 912

<211> 1277

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1277)

<223> n = A,T,C or G

<400> 912

```

nngtggcaat aaatataaag caacatttca tcaatgtgat gtttgtaaga aaatttttaa 60
aggcaaatca agtctggaaa tgcattttct aacgcattca ggtgaaaaac catacaagtg 120
tcaaatttgc aatcagtctt ttagaattaa gaaaacatta acaaaacacc tggttattca 180
ttctgatgcc cgaccttcca actgtcagca ctgtaatgca acatttaagc ggaagacaa 240
gctgaaatac cacattgacc atgttcatga aataaaatct cctgatgatc ctctcagtag 300
ttctgaggaa aaacttgtat ccttgccagt tgagtactca tctgatgaca aaatctttca 360
aacagaaaaca aaacaatata tggaccagcc caaagtttat cagtcggaag ccaagacgat 420
gttacagaat gtatctgctg aagtatgtgt tccagtaact ctggttccag ttcagatgcc 480
tgacactccg agtgacctag tgcgtcatac taccacactc ccaccatctt ctcatgagat 540
tctgtcacca cagccacagt caactgatta tccacgagca gcggatttag cttttctgga 600
aaaatatact cttactcctc aacctgcaaa tatagttcac ccagttcgac ctgaacaaat 660
gctagatcct agagaacaat cttatcttgg aacattactg ggccttgata gcactactgg 720
tgttcaaaaat atttctacga atgagcatca ttcatgagta aatctaaaca ttccacagat 780
ttttggatgg ttatagcta atggtagaga tgatagcttt taaatttgtg gggctgctat 840
tttcttgttt tctctagttt ctcaagtcct cagaacagtt tcaaatcaag aaaactatgt 900
gtctctgttt actgaacatg aatatttggg caaaatttct ggcataatat ttgaagtgca 960
catttttgtg atttttaaag attatttagt gctaactttt aatggtttct taaatttttt 1020
gcaattatta gctgctgata ttatggaagt atttttttta tcatcagtgg aaatttttat 1080

```

```

tcttctttag tctcattcct ctcttcttctc ttgctagccc ttcttacaaa caagtttgag 1140
gaccatgtat cctttaacaa ggaattaaga gtacactgat aattgcaact gtttcttctc 1200
ctaagatgca atattacgtt gtacaaattt ttaaaattga aattaggaga ttgaatttac 1260
aagaatgcct tggatan 1277

```

```

<210> 913
<211> 1277
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(1277)
<223> n = A,T,C or G

```

```

<400> 913
nngtggcaat aaatataaag caacatttca tcaatgtgat gtttgtaaga aaatttttaa 60
aggcaaatca agtctggaag tgcattttcg aacgcattca ggtgaaaaac catacaagtg 120
tcaaatttgc aatcagtctt ttagaattaa gaaaacatta acaaaacacc tggttattca 180
ttctgatgcc cgacctttca actgtcagca ctgtaatgca acatttaagc ggaaagacaa 240
gctgaaatac cacattgacc atgttcatga aataaaatct cctgatgac ctctcagtac 300
ttctgaggaa aaacttgat ccttgccagt tgagtactca tctgatgaca aaatctttca 360
aacagaaaca aaacaatata tggaccagcc caaagtttat cagtcggaag ccaagacgat 420
gttacagaat gtatctgctg aagtatgtgt tccagtaact ctgggtccag ttcagatgcc 480
tgacactccg agtgacctag tgcgtcatac taccacactc ccaccatctt ctcatgagat 540
tctgtcacca cagccacagt caactgatta tccacgagca gcggatttag cttttctgga 600
aaaatatact cttactcttc aaactgcaaa tatagttcac ccagttcgac ctgaacaaat 660
gctagatcct agagaacaat cttatcttgg aacattactg ggcttgata gcactactgg 720
tgttcaaaat atttctacga atgagcatca ttcattgagta aatctaaca ttccacagat 780
ttttggatgg ttatatgcta atggtagaga tgatagcttt taaatttggt gggctgctat 840
tttcttggtt tctctagttt ctcaagtcct cagaacagtt tcaaatacaag aaaactatgt 900
gtctctggtt actgaacatg aatatttggg caaaatttct ggcataatat ttgaagtgc 960
catttttggt atttttaaag attatttagt gctaactttt aatgggttct taaatttttt 1020
gcaattatta gctgctgata ttatggaagt atttttttta tcatcagtg aaatttttat 1080
tcttctttag tctcattcct ctcttcttctc ttgctagccc ttcttacaaa caagtttgag 1140
gaccatgtat cctttaacaa ggaattaaga gtacactgat aattgcaact gtttcttctc 1200
ctaagatgca atattacgtt gtacaaattt ttaaaattga aattaggaga ttgaatttac 1260
aagaatgcct tggatan 1277

```

```

<210> 914
<211> 282
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(282)
<223> n = A,T,C or G

```

```

<400> 914
accatttcta ggcttcttaa agcggacagg atatgcacat gtctgtcttc cataccgtgt 60
tcattatgtt ctaaaagttg gatcccatca gtttgtttta tagaatgaag acagggtgtgt 120
gtgtgtgtgt gtgtgtgtgt ggggtgtgtc cacaagaga gagagagaga gtgagagtgc 180
gtgactcttt ggacatttgc tgtttattta taatgcgacc ccagatatgg agtttcagtg 240
tctggaggac gtgttacagc atgtggtatc ctgggcatct an 282

```

```

<210> 915
<211> 321
<212> DNA
<213> Homo sapiens

```

<400> 915

```

accatttcta ggcttcttaa agcggacagg atatgcacat gtctgtcctc cataccgtgt 60
tcattatggt ctaaaagtgt gatcccatca gtttgtttta tagaatgaag acaggtgtgt 120
gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt cagagagaga gagagagaga gagagagaga 180
gagactttca agacctttgc aaataatttc cactgtgacc ccagctctgc agtctcattg 240
gccaatgctt gggttcctgc atctgatatc ctgggtatct acaactgttc atctttttca 300
accatacctc tatgtatgca t

```

<210> 916

<211> 3470

<212> DNA

<213> Homo sapiens

<400> 916

```

acaatttacg tcctaagggg gggctactct aattatccca ttcaaattga atttttttca 60
aaattggata gaaggaattg aagagttgta agtagtgatt agtctgctaa tcagttcttc 120
agatgagata ttgaatggta acactctgag cttaaaactc agcagtgtgt ctgtgacctc 180
cacgcaaatc agagggaagca atgcatccac gctgagcctc accatgtctt cctcccaact 240
ctcttcatac tctctgtgtc ttccagctct tctttctctg gccggetctc ttctctcttc 300
tctctgcata tgtgagaacg cctgggcatc ctgggtaaca gcagccccag ctgccctctc 360
ctgttccctg ttccaagtcc cctgcaactga cctttcttga gtctctctgg ctctgtgcat 420
gtctttggga ctctcctcat ctggcttttc ctctgtgtgt gcctctctgt ttgcttatgt 480
ctctggctct gtcttcccca cccctccctc cacacacaca catactccca aatgtaaggc 540
tctgtggcag gttggaatcg gagtaaggct tgagattcac tgagttctgt aggtagggaa 600
agaagtcaag ggagtggagg ttctataagg aattaacagc tgaggacgga agggtttgtt 660
tcccgtttga acctaaacgc aagtggaaaa gaatactcag aatgtatttt tctactttac 720
atctgctggg gaaggaaatg tgtcaggaag ccgctgcac tggtcatttc atcgcatcag 780
aatcacgca gactgggaag attccatgtg gtggggaata aagaaataac ttatgtctac 840
cctgaaaaac agcgggagcc tatgtgtgtg tgcgacactg taatctcaag gagattcact 900
cagagctgtc tcagtccaac tcctgcatga ccagatcttc ccttagcatc ttttctgtga 960
tgaaatatta tcttggttta gagttaggaa taggaactaa cctgtaggag catgtcccca 1020
aatggacatt tgaatggact aacaaaaaca actggaaaga ctgaatttcc gacacaaagg 1080
aatgatggga tcaaaaagaa agcagtggag agttcttgag tcttgtagta cctattctta 1140
ttttaacttg cttcatcctt gatctacctg agacactaag aaggaaatta gttttccaag 1200
agctctttga acctgtctag gactgtagtt aaacctattt gccctatggg ggttcttcac 1260
actcgaaaaa ctatttcctt atcaccaacg acccaccag aaaggccaat gaggccaaat 1320
gtaacaattt ttaacattta aatataacta ttaaaattgc attaatgtg aacagtgaat 1380
taaagggttg tcttctccag gagacagtat gtggcacttt tcgtaaattt catttaatat 1440
ataaaaaatt aaatcactca ctgcaacatg catttaaaat cttccaagaa ggtagaggta 1500
tcattttctg ttttgctttg ttttaaaaca gttgcctcaa gcttctgtct taagagtagt 1560
gacttagaat ccagatatct tttgttttag aaaaacaagc aaaactatgt tgcaagactg 1620
acagttgtta agttttattg ccacagatca aaggttcaca aagtatatca aatttacatc 1680
tacttggggt accttgatag attattattg tttttctttt atctttccct tcaggaattt 1740
ggaaactcgt tgtcactttt ttttaattttt aaaatactaa attgtaatag ttttcttttg 1800
ccaaatgtgt gcgtacatat tcaaagcaat gaaactatct caagccatac aaccacaggg 1860
gtgggaaccc ttttcacaaa ttttaatgtg tttgtatgta aatagatgtt tgtatgaaat 1920
attttcatga tagaatgaat atatttaaat gaagttgaat tattccagt ctacttaaac 1980
acattacaaa aattttggtg agaattatct gactctattg agatgtaat cagatcaatt 2040
ttgattttta aaaatcaaaa gcctacaata actctgactc tcagcaactt cctcggcgtt 2100
gttgcaactg acgtggagag agctcgtagg cttccccagt gcctcagccg ctctctgggt 2160
gaagttagggt gctaattggag gtgtgttcac ctttttagtga tatcactgca gccctttgag 2220
gggcctgaga gtgaatcaga ggcattagag acaccgggtg agttatctgg agcacaattt 2280
ctttgagggg cagcagaatc agaagccaga cttggccatg tgaacctcga aactcgggtt 2340
cccggccgcc atcaaccgcc acccttactg cctagtcaca cacgtcaggg aggctgccct 2400
cagtggagtt ggggttgaga ccccagggtg ggacttcaca gttttgccag caatctctac 2460
cttctgactt ctgcctcgca gagagggaag agaggggagc atctggcaag gggcccattt 2520
ctcagcacag tacatttcct gtctcagctc tgggaagacta tgcacccaag caccacactt 2580
ccaaccagag agagagacgt cctccgataa caaaaatcct tgcttcctct gtctgtgact 2640
ttacacacag ttgttcaaag ttgttaaatg tcaagagtca atcacatccc taggacatac 2700
ctcccaactc tcctgactct tatgttattg aaaaaacaaa caaacaaaaa ctcttttatg 2760
atgatattca acttgagtgg ggtttttttt ccactttggt cctggatata atgaaatgat 2820

```

```

acatattagg ataaattttc actgtgtata gtagcaatac gaacacacat gccaatgtat 2880
caacatatct acttggttac attttggttt atgataatta accttgattc atgtattggg 2940
aagctacagg gactacgtaa tacctgctta tcacatagga aaattatgtc catgattctg 3000
agctcccttc ttcaaaagtt tcctcctggg tggtctatgt tctctcttta tcctgaaata 3060
catttattag gttgtgaggt atgttgaaga agtagaagcc aggggtatgc tttcagcatt 3120
tattgcaacc aaaagttaac cccatcacgg ttaacgagca tctttggtct cttgtggaat 3180
ttgaactaaa actatgagcc ttattcaata tctataattc tatgattttt ttaaattatg 3240
ggaaattaat gaaagatgtt tacatgaata atgtttgccc ttactgtgtt atgaatgagt 3300
ttttttagt gtgtctgggt gcatgatgca agagagtagg aaaaatgttt ctgaaacaaa 3360
acttgacaaa tttttgtaat gaaagtaa ataaagattg ctataattgc gctatagaaa 3420
caatgcaagt attaaacaaa atatacaatc aaaaaaaaaa aaaaaaaaag 3470

```

<210> 917

<211> 197

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(197)

<223> n = A,T,C or G

<400> 917

```

nnncgaattg gagctccccg cggtggcggc cgaggtagac agaaaagcgg ttaccagcac 60
aggactctgg gttcctgtcc tacctcttgc acttgggcaa aggacttaac ctccttatgc 120
ctctgttgct ttgtataaaa tagggataat tatggtaata ccacagtttg ttttgaatgat 180
taagagttga tacatat 197

```

<210> 918

<211> 2763

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2763)

<223> n = A,T,C or G

<400> 918

```

gtccgggagc ctggctgtgg gtgagtgtct cctgaagggg tgaaagtgtg agacagcggg 60
tcaccgcagt tagccgtcac acagctccca aagggtatgg aggggggttt tcttctcatc 120
cggtccagc tggactctgg gaatgtcaga catccacatc tcggagcctg gctgtgggcc 180
catctttgga aaaaagatct gggaatgatt gtctagcctc cagcctcaac ttacttgatg 240
cttgagagac tcaaagcccc gtggtcagct gccctgcaaa gaaagtattt tgaccttggc 300
atltggacag cteccatctc tcccatggcc ctgacaatgc tgaatgggct cctgattaag 360
gactcaagcc cacctatgct gctgcaccag gttacaaga ctgcccagtt agataccttc 420
aactaccaga gctgctttat gcaaagtgtc tttagaccatt tccctgagat cttatttata 480
caccggacct ataaccgaag gggtaaggtc ttatatacct tcctggtgga tggacctcgg 540
gtgcagctgg agggatcatc tgcccagagc gtctactttg ccatccctgc caaggaggac 600
actgaaggcc tggcccagat gttccaagta ttaagaagt ttaatccagc atgggagaga 660
gtctgtacca tcctgggtga tcctcatttc cttccactgc ctatcctaga tatggagttc 720
cccacagctg aggtccttct ctcagccttc cacatttgta agttcctcca ggccaagttc 780
tatcagctgt cccttgaacg gcccggtgaa aggtgtctcc tgacctccct gcagagcaca 840
atgtgtctag ccacagccaa gctgcccag cttcactcac actggctgct caacgaccgc 900
atctggctgg cgcaccgcat ggcagaagcc gagctgagag cagccactac ttccagagcc 960
tcgaggtcac caccacatc ctcagccagt tctttggtac caccatctc gagaaacaag 1020
gtatggcttc tctgttccgt tacatgcagc agaactctgc agacaaggca aacttcaacc 1080
agggcctgtg tctgcagaac aatcatgctc cctcagacac catccccgaa agcccccaac 1140
tggagcagct gagtacaatc ccacatccag cactccctca atgccatctg cacagggcc 1200
gcagcccaac tgtgcctggg cgagcttgct gtggtccaga aatccacaca cctcattggc 1260
tctggctcac aaaagatgaa catacagatc ctggaagata ccataaggt gcagccccag 1320

```



```

ccccctgcc  gctgcagctg  ctactttaac  caggccttcc  acctgccctg  ccgccacatc  1380
ctagccatgc  tcagtccccg  ccgccagggtg  ctccagcccc  acatgctgcc  ggctcagtg  1440
acggcaggct  gtgctaccag  tctagacagc  atcctgggca  gcaagtggag  tgagacctg  1500
gataagcacc  tggcagtgac  tcacctcacc  gaggaggtgg  gtcagctgtt  gcagctctgc  1560
accaaggagg  agtttgagcg  gaggtatagc  accctgcggg  aactggccga  cagctggatt  1620
gggccttatg  agcagggtcca  actctgatta  ttctcgatgc  ccagaaatgc  tcatgcacct  1680
gtgcgcactc  annnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  1740
ntcccttaca  ctgttgtaet  tccgtgggcc  ctccctccag  aacaaggaca  acaaggacaa  1800
ggttgaagg  tcttctcatc  taccatggcc  tgctacctag  catgtgtcta  gctcaatgag  1860
acaggagtca  gcaaatctta  atctgtttag  tttactcagg  tggccacata  cagtctctgt  1920
tgtatattct  tggttttgtt  ttaatatatt  ttttcttttt  tctttttttt  tttttttttt  1980
gagaggggg  ctgtctccag  cctgggagg  tgagactcca  tctaaaaaaa  ataaaaataa  2040
tggcaacccc  tggcttaaga  taagagataa  aacatcaggt  ggtgaggttg  aggtttgggg  2100
cttggtagca  ttgcccag  tcatgagatg  actcacttaa  cccgtctcct  ttaagtggc  2160
tgggctggga  ggcttcctac  aggggaagag  gccctctgg  ggagctgact  cagccaggct  2220
ccctgaactt  ttttcttgt  cccatcctgg  ggtcaataaa  actgaatgtt  gcatattcta  2280
gcacttgtct  agttttttt  ttgtccata  gaaggcagtt  tagggatat  catggagaga  2340
atagacttta  gagtgttata  caacatgtga  atcctggttg  gttccttccc  tgcttgattt  2400
ttgtgcctgg  ttctgcctt  tactagctat  gagacttatt  aggataagtt  acccctctaa  2460
acctcaacct  gattatctgt  aaaaatgggg  atctccacag  ggtatgttca  cagagcaggc  2520
ataccttagt  ggtgtcaat  taagtattaa  ttttcttcc  ttgcctatgg  tcctatgacc  2580
tgcttcaac  atgctgggaa  atttaaggca  agagagaat  tcaaatacct  aggacttaat  2640
ataagaaatt  ctggccaggc  atggtggctc  acacctgtaa  tccagcact  ttgggaggcc  2700
gaggcaggcg  gatcacctga  ggtcgggagt  ttgagaccag  cctgaccaac  atggtgaaac  2760
cgn

```

<210> 919

<211> 2763

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2763)

<223> n = A,T,C or G

<400> 919

```

gtccgggagc  ctggctgtgg  gtgagtgtt  cctgaagggg  tgaaagtgtg  agacagcgga  60
tcaccgcagt  tagccgtcac  acagctccca  aagggtggg  aggggggtt  tcttctcatc  120
cggctccagc  tggactctgg  gaatgtcaga  catccacatc  tcggagcctg  gctgtgggcc  180
catctttgga  aaaaagatct  gggaatgatt  gtctagcctc  cagcctcaac  ttacttgatg  240
cttgagagac  tcaaaagccc  gtggtcagct  gccctgcaa  gaaagtattt  tgaccttggc  300
atttgagacg  tcccattctc  tcccatggcc  ctgacaatgc  tgaatgggct  cctgattaag  360
gactcaagcc  cacctatgct  gctgcaccag  gttaacaaga  ctgccagtt  agataccttc  420
aactaccaga  gctgctttat  gcaaagtgtc  tttgaccatt  tccctgagat  cttattttatc  480
caccggacct  ataaccacaag  gggtaaggtc  ttatatacct  tcctgggtga  tggacctcgg  540
gtgcagctgg  agggctcatc  tgcccagagc  gtctactttg  ccatccctgc  caaggaggac  600
actgaaggcc  tggcccagat  gttccaagta  ttttaagaag  ttaatccagc  atgggagaga  660
gtctgtacca  tcttgggtga  tctctatttc  cttccactgc  ctatcctagc  tatggagttc  720
ccacagctg  aggtccttct  ctgagccttc  cacatttgta  agttcctcca  ggccaagttc  780
tatcagctgt  cccttgaaag  gccgtggaa  aggtgtctcc  tgacctccct  gcagagcaca  840
atgtgtctag  ccacagccaa  gctgcccag  cttcactcac  actggctgct  caacgaccgc  900
atctggctgg  cgcaccgcat  ggcagaagcc  gagctgagag  cagccactac  ttccagagcc  960
tcgaggctac  caccacatc  ctgagccagt  tctttgttac  caccocatct  gagaaacaag  1020
gtatggcttc  tctgttccgt  tacatgcagc  agaactctgc  agacaaggca  aacttcaacc  1080
agggcctgtg  tgcccagaac  aatcatgtct  cctcagacac  catccccgaa  agcccccaac  1140
tggagcagct  gagtacaatc  ccacatccag  cactccctca  atgccatctg  cacagggcca  1200
gcagcccaac  tgtgcctggg  cgagcttgct  gtggtccaga  aatccacaca  cctcattggc  1260
tctggctcac  aaaagatgaa  catacagatc  ctggaagata  cccataaggt  gcagccccag  1320
ccccctgcc  gctgcagctg  ctactttaac  caggccttcc  acctgccctg  ccgccacatc  1380
ctagccatgc  tcagtccccg  ccgccagggtg  ctccagcccc  acatgctgcc  ggctcagtg  1440

```

```

acggcaggct gtgctaccag tctagacagc atcctgggca gcaagtggag tgagaccctg 1500
gataagcacc tggcagtgac tcacctcacc gaggaggtgg gtcagctgtt gcagctctgc 1560
accaaggagg agtttgagcg gaggtatagc accctgcggg aactggccga cagctggatt 1620
gggccttatg agcagggtcca actctgatta ttctcgatgc ccagaaatgc tcatgcacct 1680
gtgcgcactc annnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1740
ntccettaca ctgttgactc tccgtgggcc ctccctccag aacaaggaca acaaggacaa 1800
ggttgaaggg tcttctcatc taocatggcc tgctacctag catgtgtcta gctcaatgag 1860
acaggagtca gcaaacttta atctgtttag ttactcagg tggccacata cagtctctgt 1920
tgtatattct tggttttgtt ttaatatattt ttttcttttt tctttttttt tttttttttt 1980
gagagggggg ctgtctccag cctgggaggg tgagactcca tctaaaaaaa ataaaaataa 2040
tggcaacccc tggctctaaga taagagataa aacatcaggg ggtgaggttg aggtttgggg 2100
cttggtagca gttgccccag tcatgagatg actcacttaa cccgtctcct ttaagtgagc 2160
tgggctggga ggcttcctac aggggaagag gcccctctgg ggagctgact cagccaggct 2220
ccctgaactt agtctctgt cccatcctgg ggtcaataaa actgaatgtt gcatattcta 2280
gcacttgtct agtttttttt ttgttccata gaaggcagtt tagggatatat catggagaga 2340
atagacttta gagtggtata caacatgtga atcctgggtg gttccttccc tgcttgattt 2400
ttgtgcctgg ttctgccttt tactagctat gagacttatt aggataagtt acccctctaa 2460
acctcaacct gattatctgt aaaaatgggg atctccacag ggtatgttca cagagcaggc 2520
atacctagtg ggtgctcaat taagtattaa ttttcttccc ttgcctatgg tcctatgacc 2580
tgccttcaac atgctgggaa atttaaggca agaggagaat tcaaatacct aggacttaat 2640
ataagaaatt ctggccaggc atggtggctc acacctgtaa tcccagcact ttgggaggcc 2700
gaggcaggcg gatcacctga ggtcgggagt ttgagaccag cctgaccaac atggtgaaac 2760
cgn

```

<210> 920

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 920

```

cgacccacgc gtcgatcct cccttcactg ggcaagagct tctctcccag ggcggtgcga 60
cccgagctc cagcgcccga gtctccactt cgtttgctga aacttgottt ctaccagcta 120
agaaccatgc tgcgagtgat tgtggaatct gccagcaata tccctaaaac gaaatttggc 180
aagccgcatc ctattgtttc tgtcattttt aaggatgaga aaaagaaaac aaagaaagtt 240
gataatgaat tgaaccctgt ctggaatgag attttgaggt ttgacttgag ggtataacca 300
ctggactttt catcttccct tgggattatt gtgaaagatt ttgagacaat tggacaaaat 360
aaattaattg gcacggcgac tgtagccctg aaggacctga ctggtgacca gagcagatcc 420
atcccgta ca agctgatctc cctgctaaat gaaaaagggc aagatactgg ggccaccatt 480
gacttggtga tccgctatga tccgccttct gctccacatc caaatgacct gagcggggccc 540
agcgtgccag gcatgggagg agatggggaa gaagatgaag gtgatgaaga caggttggac 600
aatgcagtca ggggccctgg gcccaagggg ccagttggga cgggtgctgga agctcagctt 660
gctcggaggc tcaccaaagt aaagaacagc cggcggatgc tgtcaaataa gccacaggac 720
ttccagatcc gcgtccgagt gattgagggc cgacagttaa gtggtaacaa cataaggcct 780
gtggtcaaaag ttcacgtctg tggccagaca caccgaacaa gaatcaagag aggaacaac 840
cctttttttg atgagttgtt tttctacaat gtcaacatga ccccttctga attgatgga 900
gagatcatca gcatccgggt ttataattct cactctctgc gggcagattg tctgatgggg 960
gaatttaaga ttgatgttgg atttgtttat gatgaacctg gccatgctgt catgagaaag 1020
tggtctcttc tcaatgaccc ggaagatacc agttcagggt cttaaagggtt tatgaaagtc 1080
agcatgtttg tcctgggaac cggagatgag cctcctcctg agagacgaga tctgtgataat 1140
gacagtgatg atgtggagag taatttggtt ctccctgctg gcattgccct ccggtgggtg 1200
accttcttgc tgaaaatcta ccgagctgag gacatcccc agatggatga tgccttctca 1260
cagacaagtaa aggaaatatt tggaggcaat gcagataaga aaaatctcgt ggatcctttt 1320
gtagaaagttt cctttgctgg aaaaaagggt tgtacaaaca taattgagaa aaatgcaaac 1380
ccagagtggg atcaggtcgt caatcttcag atcaagtttc cttcagtggt tgaaaaataa 1440
aaactaaca tatatgactg ggaccgtctt actaaaaatg atgtagttgg aacaacatat 1500
ctacacctct ctaaaattgc tgcctctggt ggggaagtgg aagatttctc atcttcggga 1560

```

actggggctg	catcatatac	agtaaacaca	ggagaaacag	aggtaggott	tgttccaacg	1620
tttggacctt	gttacctgaa	tctttatgga	agccccagag	agtacacggg	attcccagac	1680
ccctatgatg	agctgaatac	tggaaagggg	gaaggagttg	cctacagagg	caggatcttg	1740
gttgaattag	ccacttttct	tgagaagaca	ccaccagata	aaaagcttga	gccccattca	1800
aatgatgacc	tgctggttgt	tgagaaatac	cagcgaaggc	ggaagtacag	cctgtctgcc	1860
gtgtttcatt	cagccaccat	gttgcaagat	gttgggtgagg	ccattcagtt	tgaagtcagc	1920
attgggaact	atggcaacaa	gtttgacacc	acctgtaagc	ctttggcacc	aacaactcag	1980
tacagccgtg	ctgtatttga	tggcaactac	tattattact	tgccctgggc	ccacaccaag	2040
ccagttgtta	ccctgacttc	atactgggag	gatattagtc	atcgccctgga	tgcggtgaac	2100
actctcctag	ctatggcaga	acggctgcaa	acaaatatag	aagctctaaa	atcagggata	2160
caaggtaaaa	ttcctgcaaa	ccagctggct	gaattgtggc	tgaagctgat	agatgaagtt	2220
atagaagaca	cgagatacac	gttgccctctc	acagaaggaa	aagccaacgt	cacagttctc	2280
gatactcaga	tccgaaagct	gcggtccagg	tctctctccc	aaatacatga	ggcggtctgt	2340
aggatggagt	tggagccac	agatgtgaag	tccacactgg	cagaaattga	ggactggctt	2400
gataaattaa	tcgacgtgac	tgaagagcca	cagaacagca	tgccctgacat	catcatctgg	2460
atgatccggg	gagagaagag	actggcctat	gcacgaattc	ccgcacatca	ggtcttgtac	2520
tccaccagtg	gtgagaatgc	atctggaaaa	tactgtggga	aaacccaaac	catctttctg	2580
aagtatccac	aggagaaaaa	caacgggcca	aagggtgcctg	tggagttgag	agtgaacatc	2640
tggctaggct	taagtgtctg	ggagaagaag	tttaacagct	tcgcagaagg	aactttcacc	2700
gtctttgtctg	aaatgtatga	aaatcaagct	ctcatgtttg	gaaaatgggg	tacttctgga	2760
ttagtaggac	gtcataagtt	ttctgatgtc	acaggaaaaa	taaaactcaa	gagggaaatt	2820
tttctgcctc	caaaaggctg	ggaatgggaa	gcagagtgga	tagttgatcc	tgaaagaact	2880
ttgctgactg	aggcagatgc	aggtcacacg	gagttcactg	atgaagtcta	tcagaacgag	2940
agccgctacc	cggggggcga	ctggaagccg	gccgaggaca	cctacacgga	tgcgaaacgc	3000
gataaagcag	catcaccacg	cgagttgact	tgtccctccag	gttgggaatg	ggaagatgat	3060
gcatggtctt	atgacataaa	tcgagtggtg	gatgagaaa	gctgggaata	tggaatcacc	3120
attcctcctg	atcataagcc	caaatcctgg	gttgacgacg	agaaaatgta	ccacactcat	3180
agacggcgaa	ggctggtccg	aaaacgcaag	aaagatttaa	cacagactgc	ttcaagcacc	3240
gcaagggccaa	tggaggaatt	gcaagaccaa	gagggtggg	aatatgcttc	tctaattggc	3300
tggaaatttc	actggaaaca	acgtagttca	gataccttcc	gccgcagacg	ctggaggaga	3360
aaaatggctc	cttcagaaac	acatggtgca	gctgccatct	ttaaacttga	aggtgccctt	3420
ggggcagaca	ctaccgaaga	tggggatgag	aagagcctgg	agaaacagaa	gcacagtgc	3480
accactgtgt	tcggagcaaa	cacccccatt	gtttcctgca	attttgacag	agtctacatc	3540
taccatctgc	gctgctatgt	ctatcaagcc	agaaaacctct	tggttttaga	taaggatagc	3600
ttttcagatc	catatgctca	tatctgtttc	ctccatcgga	gcaaaaccac	tgagatcatc	3660
cattcaaccc	tgaatcccac	gtggggacca	acaattatat	tcgatgaagt	tgaaatctat	3720
ggggaacccc	aaacagttct	acagaatcca	cccaaagtta	tcatggaact	ttttgacaat	3780
gaccaagtgg	gcaaagatga	attttttagga	cgaagcattt	tctctcctgt	ggtgaaactg	3840
aactcagaaa	tggacatcac	acccaaactt	ctctggcacc	cagtaatgaa	tggagacaaa	3900
gcctgcgggg	atgttcttgt	aactgcagag	ctgattctga	ggggcaagga	tggtccaac	3960
cttcccattc	ttccccctca	aaggggcgca	aatctataca	tggtccccc	ggggatcagg	4020
cctgtggtcc	agctcactgc	cattgagatt	ctagcttggg	gcttaagaaa	tatgaaaaac	4080
ttccagatgg	cttctatcac	atccccagtt	ctgtgtgtgg	agtgtggagg	agaaagggtg	4140
gaatcggtgg	tgatcaaaaa	ccttaagaag	acacccaaact	ttccaagttc	tgttctcttc	4200
atgaaagtgt	tcttgcccaa	ggaggaattg	tacatgcccc	cactggtgat	caaggtcatc	4260
gaccacaggc	agtttgggag	gaagcctgtc	gtcggccagt	gcaccatcga	gcgcctggac	4320
cgctttcgct	gtgaccctta	tgcagggaaa	gaggacatcg	tcccacagct	caaagcctcc	4380
cttctgtctg	ccccaccatg	ccgggacatc	gttatcgaaa	tggaaagacac	caaaccatta	4440
ctggcttcta	agctgacaga	aaaggaggaa	gaaatcgtgg	actggtggag	taaattttat	4500
gcttcctcag	gggaacatga	aaaatgcgga	cagtatattc	agaaaggcta	ttccaagctc	4560
aagatatata	attgtgaact	agaaaatgta	gcagaatttg	agggcctgac	agacttctca	4620
gatacgttca	agttgtaccg	aggcaagtgc	gatgaaaatg	aagatccttc	tgtggttgga	4680
gagtttaaag	gctcctttcg	gatctaccct	ctgccggatg	acccacagct	gccagcccct	4740
cccagacagt	ttcggaatt	acctgacagc	gtcccacagg	aatgcacggt	taggattttac	4800
attgttcgag	gcttagagct	ccagccccag	gacaacaatg	gcctgtgtga	cccttacata	4860
aaaataacac	tgggcaaaaa	agtcattgaa	gaccgagatc	actacattcc	caacactctc	4920
aaccagctct	ttggcaggat	gtacgaactg	agctgtact	tacctcaaga	aaaagacctg	4980
aaaatttctg	tctatgatta	tgacaccttt	acccgggatg	aaaaagtagg	agaaacaatt	5040
attgatctgg	aaaaccgatt	cctttcccgc	tttgggtccc	actgcggcat	accagaggag	5100
tactgtgttt	ctggagtcaa	tacctggcga	gatcaactga	gaccaacaca	gctgcttcaa	5160
aatgtcgcca	gattcaaaag	cttcccacaa	cccatccttt	ccgaagatgg	gagttagaatc	5220

```

agatatggag gacgagacta cagcttggat gaatttgaag ccaacaaaat cctgcaccag 5280
cacctcgggg cccctgaaga gcggttgct cttcacatcc tcaggactca ggggctggc 5340
cctgagcacg tggaaacaag gactttgcac agcaccttcc agcccaacat ttcccaggga 5400
aaacttcaga tgtgggtgga tgttttcccc aagagtttg ggccaccagg ccctcctttc 5460
aacatcacac cccggaaagc caagaaatac tacctgcgtg tgatcatctg gaacaccaag 5520
gacgttatct tggacgagaa aagcatcaca ggagaggaaa tgagtacat ctacgtcaaa 5580
ggctggattc ctggcaatga agaaaacaaa cagaaaacag atgtccatta cagatctttg 5640
gatggtgaag ggaattttta ctggcgattt gttttcccg ttgactacct tccagccgaa 5700
caactctgta tcgttgcgaa aaaagagcat ttctggagta ttgaccaaac ggaatttcga 5760
atcccacca ggctgatcat tcagatatgg gacaatgaca agttttctct ggatgactac 5820
ttgggtttcc tagaacttga cttgcgtcac acgatcattc ctgcaaaaatc accagagaaa 5880
tgcaggttg acatgattcc ggacctcaa gccatgaacc cccttaaagc caagacagcc 5940
tccctctttg agcagaagtc catgaaagga tggtgccat gctacgcaga gaaagatggc 6000
ggccgcgtaa tggctgggaa agtggagatg acattggaaa tcctcaacga gaaggaggcc 6060
gacgagaggc cagccgggaa ggggcgggac gaacccaaca tgaaccccaa gctggactta 6120
ccaaatcgac cagaaacctc cttcctctgg ttaccaacc catgcaagac catgaagttc 6180
atcgtgtggc gccgctttta gtgggtcatc atcggttgc tgttctgct tatcctgctg 6240
ctcttcgtgg cgtgtctcct ctactctttg ccgaactatt tgtcaatgaa gattgtaaag 6300
ccaaatgtgt aacaaaggca aaggttcat ttccagagtc atccagcaat gagagaatcc 6360
tgctctgta gaccaacatc cagtgtgatt ttgtgtctga gaccacacc cagtagcagg 6420
ttaccctatg taccgagcc ccattgattc ccagagggtc ttagtctgg aaagtcaggc 6480
caacaagcaa cgtttgcac atgttatctc ttaagtatta aaagttttat tttctaaagt 6540
ttaaatcatg tttttcaaaa tatttttcaa ggtggtggt tccattttaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttggaat tgctaaatag aattcaaaaa 6660
tctctgcac ctgaggtgat atacttcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tagaatagtt agaacaattc ttatttatgc ccacaaccat tgctatatatt 6780
tgtatggatg tcataaaagt ctatttaacc tctgtaatga aactaaataa aaatgtttca 6840
cctttaaaaa aaaaaaaa aaaaagggg gggccgaacc caatgccta ttggagggtg 6900
atccaaataa tggccgcttt acannnn 6927

```

<210> 921

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 921

```

cgacccacgc gtccgatcct cccttcaactg ggcaogagct tcttcccag ggcggtgcga 60
cccgagctc cagcgcccga gtctccactt cgtttgctga aacttgcttt ctaccagcta 120
agaaccatgc tgcgagtgat tgtggaatct gccagcaata tccctaaaac gaaatttggc 180
aagccgcatc ctattgtttc tgtcattttt aaggatgaga aaaagaaaac aaagaaagt 240
gataatgaat tgaaccctgt ctggaatgag attttgaggt ttgacttgag ggtataacca 300
ctggactttt catcttccct tgggattatt gtgaaagatt ttgagacaat tggacaaaat 360
aaattaattg gcacggcgac tgtagccctg aaggacctga ctggtgacca gagcagatcc 420
ctgccgtaca agctgatctc cctgctaaat gaaaaagggc aagatactgg ggccaccatt 480
gacttggtga tcggctatga tccgccttct gctccacatc caaatgacct gagcggggccc 540
agcgtgccag gcatgggagg agatggggaa gaagatgaag gtgatgaaga caggttggac 600
aatgcagtca ggggccctgg gcccaagggg ccagttggga cggtgtcgga agctcagctt 660
gctcggaggc tcaccaaagt aaagaacagc cggcgatgc tgtcaaataa gccacaggac 720
ttccagatcc ggcgccagt gattgagggc cgacagttaa gtggtaacaa cataaggcct 780
gtggtcaaa ttcacgtctg tggccagaca caccgaacaa gaatcaagag aggaaacaac 840
cctttttttg atgagttgtt tttctacaat gtcacacatg ccccttctga attgatggat 900
gagatcatca gcattccgggt ttataattct cactctctgc ggcagattg tctgatggg 960
gaatttaaga ttgatgttgg atttgtttat gatgaacctg gccatgctgt catgagaaag 1020
tggcttcttc tcaatgacct ggaagatacc agttcaggtt ctaaagggtt tatgaaagtc 1080
agcatgtttg tcctgggaac cggagatgag cctcctcctg agagacgaga tcgtgataat 1140
gacagtgatg atgtggagag taatttggtt ctccctgctg gcattgcctt ccggtgggtg 1200

```

accttcttgc	tgaaaatcta	ccgagctgag	gacatcccc	agatggatga	tgccttctca	1260
cagacagtaa	aggaaatatt	tggaggcaat	gcagataaga	aaaatctcgt	ggatcctttt	1320
gtagaagttt	cctttgctgg	aaaaaagggt	tgtacaaaca	taattgagaa	aaatgcaaac	1380
ccagagtggg	atcaggctcgt	caatcttcag	atcaagtttc	cttcagtggt	tgaaaaata	1440
aaactaacia	tatatgactg	ggaccgtctt	actaaaaatg	atgtagtgtg	aacaacatat	1500
ctacacctct	ctaaaattgc	tgcctctggt	ggggaagtgg	aagatttctc	atcttcggga	1560
actggggctg	catcatatac	agtaaacaca	ggagaaacag	aggtaggctt	tgttccaacg	1620
tttgacctt	gttacctgaa	tctttatgga	agccccagag	agtacacggg	attcccagac	1680
ccctatgatg	agctgaatac	tggaaagggg	gaaggagtgt	cctacagagg	caggatcttg	1740
gttgaaattg	ccacttttct	tgagaagaca	ccaccagata	aaaagcttga	gcccatttca	1800
aatgatgacc	tgctgggtgt	tgagaaatac	cagcgaaggc	ggaagtacag	cctgtctgcc	1860
gtgtttcatt	cagccaccat	gttgcaagat	gttgggtgag	ccattcagtt	tgaagtcatc	1920
attgggaatt	atggcaacaa	gtttgacacc	acctgtaagc	ctttggcatc	aacaactcag	1980
tacagccgtg	ctgtatttga	tggaacacac	tattattact	tgccttgggc	ccacaccaag	2040
ccagttgtta	ccctgacttc	atactgggag	gatattagtc	atcgctgga	tgcggtgaac	2100
actctcctag	ctatggcaga	acggctgcaa	acaaatatag	aagctctaaa	atcagggata	2160
caaggtaaaa	ttcctgcaaa	ccagctggct	gaattgtggc	tgaagctgat	agatgaagtt	2220
atagaagaca	cgagatacac	gttgccctct	acagaaggaa	aagccaacgt	cacagttctc	2280
gatactcaga	tccgaaagct	gcggtccagg	tctctctccc	aaatacatga	ggcggtctgt	2340
aggatgaggt	cggaaagccac	agatgtgaag	tccacactgg	cagaaattga	ggactggctt	2400
gataaattta	tgcagctgac	tgaagagcca	cagaacagca	tgcttgacat	catcatctgg	2460
atgatccggg	ggagaaagag	actggcctat	gcacgaattc	ccgcacatca	ggtcttgtac	2520
tccaccagtg	gtgagaatgc	atctggaaaa	tactgtggga	aaacccaaac	catctttctg	2580
aagtatccac	aggagaaaaa	caacggggcca	aagggtgcctg	tggagtgtcg	agtgaacatc	2640
tggctaggct	taagtgtctg	ggagaagaag	tttaacagct	tgcgagaagg	aactttcacc	2700
gtctttgctg	aaatgtatga	aaatcaagct	ctcatgtttg	gaaaatgggg	tacttctgga	2760
ttagtaggac	gtcataagtt	ttctgatgtc	acaggaaaaa	taaaactcaa	gagggaaatt	2820
ttctgacctc	caaaaggctg	ggaatgggaa	ggagagtggg	tagttgatcc	tgaaagaagg	2880
ttgctgactg	aggcagatgc	aggctcacag	gagttcactg	atgaagtcta	tcagaacgag	2940
agccgctacc	ccgggggcca	ctggaagccg	gccgaggaca	cctacacgga	tgcgaaacgg	3000
gataaagcag	catcaccacg	cgagttgact	tgtcctccag	gttgggaatg	ggaagatgat	3060
gcatggtctt	atgacataaa	tgcagtggtg	gatgagaaa	gctgggaata	tggaaacacc	3120
attcctcctg	atcataagcc	caaatectgg	gttgacagcag	agaaaatgta	ccacactcat	3180
agacggcgaa	ggctgggtccg	aaaacgcaag	aaagatttaa	cacagactgc	ttcaagcacc	3240
gcaaggccca	tggaggaatt	gcaagaccaa	gagggctggg	aatatgcttc	tctaattggc	3300
tggaaatttc	actggaaaca	acgtagtcca	gtacaccttc	gccgcagacg	ctggaggaga	3360
aaaatggctc	cttcagaaac	acatgggtgca	gctgccatct	ttaaacttga	aggtgccctt	3420
ggggcagaca	ctaccgaaga	tggggatgag	aagagcctgg	agaaacagaa	gcacagtgcc	3480
accactgtgt	tccggagcaaa	cacccccatt	gtttcctgca	attttgacag	agtctacatc	3540
taccatctgc	gctgctatgt	ctatcaagcc	agaaacctct	tggctttaga	taaggatagc	3600
ttttcagatc	tatatgctca	tatctgtttc	ctccatcgga	gcaaaaccac	tgagatcatc	3660
cattcaaccc	cgatctccac	gtgggaccaa	acaattatat	tcgatgaagt	tgaaatctat	3720
ggggaacccc	aaacagttct	acagaatcca	cccaaagtta	tcatggaact	ttttgacaat	3780
gaccaagtgg	gcaaagatga	attttttagga	cgaagcattt	tctctcctgt	ggtgaaactg	3840
aactcagaaa	tggacatcac	acccaaactt	ctctggcacc	cagtaatgaa	tggagacaaa	3900
gcctgcgggg	atgttcttgt	aactgcagag	ctgattctga	ggggcaagga	tggctccaac	3960
cttcccattc	ttccccctca	aaggggcgcca	aatctataca	tgggtcccca	ggggatcagg	4020
cctgtggtcc	agctcactgc	cattgagatt	ctagcttggg	gcttaagaaa	tatgaaaaac	4080
ttccagatgg	cttctatcac	atccccagct	cttgttgtgg	agtgtggagg	agaaagggtg	4140
gaatcggtgg	tgatcaaaaa	ccttaagaag	acacccaact	ttccaagtcc	tgttctcttc	4200
atgaaagtgt	tcttgcccaa	ggaggaattg	tacatgcccc	cactggtgat	caaggctcatc	4260
gaccacaggc	agtttgggcg	gaagcctgtc	gtcggccagt	gcaccatcga	gcgcctggac	4320
cgctttcgct	gtgaccctta	tgcagggaaa	gaggacatcg	tcccacagct	caaagcctcc	4380
cttctgtctg	ccccaccatg	ccgggacatc	gttatcgaaa	tggaagacac	caaaccatta	4440
ctggcttcta	agctgacaga	aaaggaggaa	gaaatcgtgg	actggtggag	taaattttat	4500
gcttcctcag	gggaacatga	aaaatgcgga	cagtatattc	agaaaggcta	ttccaagctc	4560
aagatatata	atttgaact	agaaaatgta	gcagaatttg	agggcctgac	agacttctca	4620
gatacgttca	agttgtaccg	aggcaagtgc	gatgaaaatg	aagatccttc	tgtggttggg	4680
gagtttaagg	gctcctttcg	gatctaccct	ctgccggatg	accccagcgt	gccagcccct	4740
cccagacagt	ttcggaatt	acctgacagc	gtccacacag	aatgcaagg	taggatttac	4800
attgttcgag	gcttagagct	ccagccccag	gacaacaatg	gcctgtgtga	cccttacata	4860

```

aaaataaacac tgggcaaaaa agtcattgaa gaccgagatc actacattcc caacactctc 4920
aaccagctct ttggcaggat gtacgaactg agctgctact tacctcaaga aaaagacctg 4980
aaaatttctg tctatgatta tgacaccttt acccgggatg aaaaagtagg agaacaatt 5040
attgatctgg aaaaccgatt cctttccgcg tttgggtccc actgcgcat accagaggag 5100
tactgtgttt ctggagtcaa tacctggcga gatcaactga gaccaacaca gctgcttcaa 5160
aatgtcgcca gattcaaagg cttcccacaa cccatccttt ccgaagatgg gagtagaatc 5220
agatatggag gacgagacta cagcttgat gaatttgaag ccaacaaaat cctgcaccag 5280
cacctcgggg cccctgaaga gcggttgct cttcacatcc tcaggactca ggggctgggt 5340
cctgagcacg tggaaacaag gactttgcac agcaccttcc agcccaacat ttcccaggga 5400
aaacttcaga tgtgggtgga tgttttcccc aagagtttgg ggccaccagg ccctcctttc 5460
aacatcacac cccggaagc caagaaatc tacctgcgtg tgatcatctg gaacaccaag 5520
gacgttatct tggacgagaa aagcatcaca ggagaggaaa tgagtacat ctacgtcaaa 5580
ggctggattc ctggcaatga agaaaacaaa cagaaaacag atgtccatta cagatctttg 5640
gagtggaag ggaattttta ctggcgattt gttttccgt ttgactacct tccagccgaa 5700
caactctgta tcgttcgaa aaaagagcat ttctggagta ttgaccaaac ggaatttcga 5760
atcccacca ggctgatcat tcagatatgg gacaatgaca agttttctct ggatgactac 5820
ttgggtttcc tagaacttga cttgcgtcac acgatcattc ctgcaaaatc accagagaaa 5880
tgacagttgg acatgattcc ggacctcaaa gccatgaacc cccttaaagc caagacagcc 5940
tcctctttg agcagaagtc catgaaagga tgggtggccat gctacgcaga gaaagatggc 6000
gccgcgtaa tggtgggaa agtgagatg acattggaaa tcctcaacga gaaggaggcc 6060
gacgagaggc cagccgggaa gggcgggac gaaccaaca tgaacccaa gctggactta 6120
ccaatcgac cagaaacctc cttcctctgg ttcaccaacc catgcaagac catgaagttc 6180
atcgtgtggc gccgctttaa gtgggtcatc atcggttgc tgttctgtct tatcctgtctg 6240
ctcttcgtgg ccgtgtcct ctactctttg ccgaactatt tgtcaatgaa gattgtaaag 6300
ccaatgtgt aacaaaggca aaggcttcat ttccagagtc atccagcaat gagagaatcc 6360
tgcctctgta gaccaacatc cagtgtgatt ttgtgtctga gaccacaccc cagtagcagg 6420
ttacgccatg tcaccgagcc ccattgattc ccagagggtc ttagtcctgg aaagtcaggc 6480
caacaagcaa cgtttgcac atgttatctc ttaagtatta aaagttttat tttctaaagt 6540
ttaaatcatg tttttcaaaa tatttttcaa ggtggctggt tcattttaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttgaaat tgctaaatag aattcaaaaa 6660
tctctgcac ctgaggtgat atacttcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tagaatagtt agaacaattc ttatttatgc ccacaaccat tgctatattt 6780
tgtatggatg tcataaaagt ctatttaacc tctgtaatga aactaaataa aaatgtttca 6840
cctttaaaaa aaaaaaaaaa aaaaaagggg gggccgaacc caatcgcta ttggaggggt 6900
atccaaataa tggccgcttt acannnn 6927

```

<210> 922

<211> 2117

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2117)

<223> n = A,T,C or G

<400> 922

```

nnncaccacg cgtcagtcga cccacgcgtc cgtgaaccga tgcccccgca ggtgccggag 60
cccgtgggg caggcagcgc gatccctcta ccagctgggtg actgggtcgc tgtccccaga 120
cagcgtggac gatgaatttg aattgtccac cgtgtgtcac cggcctgagg gtctggagca 180
gctgcaggag caaaccaaat tcacgcgcaa ggagttgcag gtcctgtacc ggggcttcaa 240
gaacgaatgt cccagcggaa ttgtcaatga ggagaacttc aagcagattt actcccagtt 300
ctttcctcaa ggagactcca gcacctatgc cacttttctc tccaatgcct ttgacaccaa 360
ccatgatggc tcggtcagtt ttgaggactt tgtggctggt ttgtccgtga ttcttcgggg 420
aactgtagat gacaggctta attgggcctt caacctgtat gaccttaaca aggacggctg 480
catcaccaag gaggaatgc ttgacatcat gaagtccatc tatgacatga tgggcaagta 540
cacgtaccct gcactccggg aggaggcccc aaggaacac gtggagagct tcttcagaa 600
gatggacaga aacaaggatg gtgtgggtgac cattaggaa ttcatagat cttgtcaaaa 660
ggatgagaac atcatgaggt ccatgcagct ctttgacaat gtcacttagc ccccaggaga 720
gggggtcagt gtttcctggg gggaccatgc tctaacccta gtccaggcgg acctcacct 780
tctctccca ggtctatct catcctacgc ctcctgggg gctggaggga tccaagagct 840

```

```

tggggattca gtagtccaga tctctggagc tgaaggggcc agagagtggg cagagtgcac 900
ctcgggggggt gttcccaact cccaccagct ctcaaccctt tcctgcctga caccagtggt 960
tgagagtgcc cctcctgtag gaattgagcg gttccccacc tcctaccctt actctagaaa 1020
cacactagac agatgtctcc tgctatggtg cttcccccat ccctgacctc ataaacattt 1080
cccctaagac tcccctctca gagagaatgc tccattcttg gcaactggctg gcttctcaga 1140
ccagccattg agagccctgt gggaggggga caagaatgta tagggagaaa tcttgggcct 1200
gagtcaatgg ataggctcta ggaggtggct ggggttgaga atagaagggc ctggacagat 1260
tatgattgct caggcatacc aggttatagc tccaagttcc acaggtctgc taccacaggc 1320
catcaaaata taagtttcca ggctttgcag aagaccttgt ctccttagaa atgccccaga 1380
aattttccac accctcctcg gtatccatgg agagcctggg gccagatata tggctcatct 1440
ctggcattgc ttcctctcct tccttcctgc atgtgttggt ggtggttggt gtgggggaat 1500
gtggatgggg gatgtcctgg ctgatgcctg ccaaaatttc atccaccctt ccttgcttat 1560
cgtccctgtt ttgagggcta tgacttgagt ttttgtttcc catgttctct atagacttg 1620
gaccttcctg aacttggggc ctatcactcc ccacagtgga tgccttaaaa gggagaggga 1680
aggagggagg caggcatagc atctgaacct agtgtggggg cattactag aatcttcaat 1740
caacctgggc tctccccacc ccacccaga taacctctc agttccctag ggtctcttct 1800
tgcttgactc aatctacca gagatgcccc ttagcacacc tagagggcag ggaccatagg 1860
accaggttc caaccctatt gtcagcacc cagccatgcg gccaccctt agcacacctg 1920
ctcgtcccat ttagcttacc ctcccagttg gccagaatct gaggggagag ccccagaga 1980
gcccccttcc ccatacagaag actgttgact gctttgcatt ttgggctctt ctatatattt 2040
tgtaaagtaa gaaatatacc agatctaata aaacacaatg gctatgcaca gaaaaaaaaa 2100
aaaaaaaaann nnnnnnn

```

<210> 923

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 923

```

cgaccacgc gtccgatcct cccttcactg ggcacgagct tctctccag ggcgggtgca 60
cccggagctc cagcgcccga gtctccactt cgtttgctga aacttgcttt ctaccagcta 120
agaaccatgc tgcgagtgat tgtggaatct gccagcaata tccctaaaac gaaatttggc 180
aagccggatc ctattgtttc tgtcattttt aaggatgaga aaaagaaaac aaagaaagtt 240
gataatgaat tgaaccctgt ctggaatgag attttggagt ttgacttgag gggatatacca 300
ctggactttt catcttccct tgggattatt gtgaaagatt ttgagacaat tggacaaaat 360
aaattaattg gcacggcgac tgtagccctg aaggacctga ctggtgacca gagcagatcc 420
ctgccgtaca agctgatctc cctgctaaat gaaaaagggc aagatactgg ggccaccatt 480
gacttggtga tccgctatga tccgccttct gctccacatc caaatgacct gagcggggccc 540
agcgtgccag gcatgggagg agatggggaa gaagatgaag gtgatgaaga cagggttgac 600
aatgcagtca ggggccctgg gcccaagggg ccagttggga cgggtgtcga agctcagctt 660
gctcggaggc tcaccaaagt aaagaacagc cggcggatgc tgtcaaataa gccacaggac 720
ttccagatcc gcgtccgagt gattgagggc cgacagttaa gtggttaaca cataaggcct 780
gtggtcaaa gttcacgtctg tggccagaca caccgaacaa gaatcaagag aggaaacaac 840
cctttttttg atgagttgtt tttctacaat gtcaacatga ccccttctga attgatggat 900
gagatcatca gcatccgggt ttataattct cactctctgc gggcagattg tctgatggg 960
gaatttaaga ttgatgttgg atttgtttat gatgaacctg gccatgctgt catgagaaag 1020
tggcttcttc tcaatgaccc ggaagatacc agttcaggtt cttaaaggta tatgaaagtc 1080
agcatgtttg tcctgggaac cggagatgag cctcctcctg agagacgaga tcgtgataat 1140
gacagtgatg atgtggagag taatttggtt ctccctgctg gcattgccct ccggtgggtg 1200
accttcttgc tgaaaatcta ccgagctgag gacatcccc agatggatga tgccttctca 1260
cagacagtaa aggaaatatt tggaggcaat gcagataaga aaaatctcgt ggatcctttt 1320
gtagaagttt cctttgctgg aaaaaagggt tgtacaaaca taattgagaa aatgcaaac 1380
ccagagtgga atcaggtcgt caatcttcag atcaagttc cttcagtggt tgaaaaaata 1440
aaactaaca tatatgactg ggaccgtctt actaaaaatg atgtagttgg aacaacatat 1500
ctacacctct ctaaaattgc tgctctgggt ggggaagtgg aagatttctc atcttcggga 1560
actggggctg catcatatac agtaaacaca ggagaaacag aggtaggctt tgttccaacg 1620

```


tttggacctt	gttacctgaa	tctttatgga	agccccagag	agtacacggg	attcccagac	1680
ccctatgatg	agctgaatac	tggaagggg	gaaggagtgt	cctacagagg	caggatcttg	1740
gttgaattag	ccacttttct	tgagaagaca	ccaccagata	aaaagcttga	gcccatttca	1800
aatgatgacc	tgctgggtgt	tgagaaatac	cagcgaaggc	ggaagtacag	cctgtctgcc	1860
gtgtttcatt	cagccaccat	gttgcaagat	gttgggtgagg	ccattcagtt	tgaagtcagc	1920
attgggaact	atggcaacaa	gtttgacacc	acctgtaagc	ctttggcatc	aacaactcag	1980
tacagccgtg	ctgtatttga	tggaactac	tattattact	tgcttgggc	ccacaccaag	2040
ccagttgtta	ccctgacttc	atactgggag	gatattagtc	atcgctgga	tgcggtgaac	2100
actctcctag	ctatggcaga	acggctgcaa	acaaatatag	aagctctaaa	atcagggata	2160
caaggtaaaa	ttcctgcaaa	ccagctggct	gaattgtggc	tgaagctgat	agatgaagtt	2220
atagaagaca	cgagatacac	gttgcccttc	acagaaggaa	aagccaacgt	cacagttctc	2280
gatactcaga	tccgaaagct	gcggtccagg	tctctctccc	aaatacatga	ggcggtctgt	2340
aggatgaggt	cggaagccac	agatgtgaag	tccacactgg	cagaaattga	ggactggctt	2400
gataaattaa	tgacactgac	tgaagacga	cgaacacga	tgctgacat	catcatctgg	2460
atgatccggg	aggagaagag	actggcctat	gcacgaattc	ccgcacatca	ggtcttgtac	2520
tccaccagt	gtgagaatgc	atctggaaaa	tactgtggga	aaacccaaac	catctttctg	2580
aagtatccac	aggagaaaaa	caacggggcca	aagggtgcctg	tggaattgag	agtgaacatc	2640
tggttaggct	taagtgtgt	ggagaagaag	tttaacagct	tcgcagaagg	aactttcacc	2700
gtctttgtctg	aaatgtatga	aaatcaagct	ctcatgtttg	gaaaatgggg	tacttctgga	2760
ttagttaggac	gtcataagtt	ttctgatgtc	acaggaaaaa	taaaactcaa	gagggaaattt	2820
tttctgcctc	caaaaggctg	ggaatgggaa	ggagagtggg	tagttgatcc	tgaaagaagc	2880
ttgctgactg	aggcagatgc	aggtcacacg	gacttactg	atgaagtcta	tcagaacgag	2940
agccgctacc	ccgggggcca	ctggaagccg	gccgaggaca	cctacacgga	tgcaaacggc	3000
gataaagcag	catcaccacg	cgagttgact	tgctctccag	gttggaatg	ggaagatgat	3060
gcatggtctt	atgacataaa	tcgagtgggt	gatgagaaag	gctgggaata	tggaatcacc	3120
attcctcctg	atcataagcc	caaatcctgg	gttgccagcag	agaaaatgta	ccacactcat	3180
agacggcgaa	ggctggtccg	aaaacgcaag	aaagatttaa	cacagactgc	ttcaagcacc	3240
gcaagggcca	tggaggaatt	gcaagaccaa	gagggctggg	aatatgcttc	tctaattggc	3300
tggaatttcc	actggaacaa	acgtagtcca	catcacttcc	gccgcagacg	ctggaggaga	3360
aaaatggctc	cttcagaaac	acatggtgca	gctgccatct	ttaaacttga	aggtgccctt	3420
ggggcgagaca	ctaccgaaga	tggggatgag	aagagcctgg	agaaacagaa	gcacagtgcc	3480
accactgtgt	tcggagcaaa	cacccccatt	gtttcctgca	atthtgacag	agtctacatc	3540
taccatctgc	gctgctatgt	ctatcaagcc	agaaacctct	tggtctttaga	taaggatagc	3600
ttttcagatc	catatgtcca	tatctgtttc	ctccatcgga	gcaaaaccac	tgagatcatc	3660
cattcaaccc	tgaatcccac	gtgggaccaa	acaattatat	tcgatgaagt	tgaaatctat	3720
gggaaacccc	aacagattct	acagaatcca	cccaaagtta	tcagtgaact	ttttgacaat	3780
gaccaagtgg	gcaaagatga	atthtttagga	cgaagcattt	tctctcctgt	ggtgaaactg	3840
aactcagaaa	tggacatcac	acccaaactt	ctctggcacc	cagtaatgaa	tggagacaaa	3900
gcctgcgggg	atgttcttgt	aactgcagag	ctgattctga	ggggcaagga	tggctccaac	3960
cttcccattc	ttccccctca	aagggcgcca	aatctataca	tggtccccca	ggggatcagg	4020
cctgtggtcc	agctcactgc	cattgagatt	ctagcttggg	gcttaagaaa	tatgaaaaac	4080
ttccagatgg	ctctatcac	atccccagt	cttgttgtgg	agtgtggagg	agaaagggtg	4140
gaatcggtgg	tgatcaaaaa	ccttaagaag	acacccaact	ttccaagttc	tgthctcttc	4200
atgaaagtgt	tcttgcccaa	ggaggaattg	tacatgcccc	cactggtgat	caaggtcatc	4260
gaccacaggc	agtttgggcg	gaagcctgtc	gtcggccagt	gcaccatcga	gcgcctggac	4320
cgctttcgct	gtgaccctta	tgcagggaaa	gaggacatcg	tcccacagct	caaagcctcc	4380
cttctgtctg	ccccaccatg	ccgggacatc	gttatcgaaa	tggaagacac	caaaccatta	4440
ctggcttcta	agctgacaga	aaaggaggaa	gaaatcgtgg	actggtggag	taaatthttat	4500
gcttcctcag	gggaacatga	aaaatgcgga	cagtatatct	agaaaggcta	ttccaagctc	4560
aagatatata	attgtgaact	agaaaatgta	gcagaatttg	agggcctgac	agacttctca	4620
gatacgttca	agttgtaccg	aggcaagtgc	gatgaaaatg	aagatccttc	tgtggttggg	4680
gagtttaagg	gctcctttcg	gatctaccct	ctgccggatg	acccagcgt	gccagccctt	4740
cccagacagt	ttcggaatt	acctgacagc	gtcccacagg	aatgcacggg	taggattttac	4800
attgttcgag	gcttagagct	ccagccccag	gacaacaatg	gcctgtgtga	cccttacata	4860
aaaataaacac	tgggcaaaaa	agtcattgaa	gaocgagatc	actacattcc	caacactctc	4920
aaccagttct	ttggcaggat	gtacgaactg	agctgctact	tacctcaaga	aaaagacctg	4980
aaaatttctg	tctatgatta	tgacaccttt	acctgggatg	aaaaagtagg	agaaacaatt	5040
attgatctgg	aaaaccgatt	cttttccgc	tttgggtccc	actgcggcat	accagaggag	5100
tactgtgttt	ctggagtcaa	tacctggcga	gatcaactga	gaccaacaca	gctgcttcaa	5160
aatgtcgcca	gattcaaaag	cttcccacaa	cccatccttt	ccgaagatgg	gagtagaatc	5220
agatatggag	gacgagacta	cagcttggtat	gaatttgaag	ccaacaaaat	cctgcaccag	5280


```

cacctcgggg cccctgaaga gcggttgcct cttcacatcc tcaggactca ggggctggtc 5340
cctgagcacg tggaaacaag gactttgcac agcaccttcc agccaacat ttcccaggga 5400
aaacttcaga tgtgggtgga tgttttcccc aagagtttgg ggccaccagg ccctcctttc 5460
aacatcacac cccggaaagc caagaaatac tacctgcgtg tgatcatctg gaacaccaag 5520
gacgttatct tggacgagaa aagcatcaca ggagaggaaa tgagtacat ctacgtcaaa 5580
ggctggattc ctggcaatga agaaaacaaa cagaaaacag atgtccatta cagatctttg 5640
gatggtagag ggaattttaa ctggcgattt gttttcccg ttgactacct tccagccgaa 5700
caactctgta tcgttgcgaa aaaagagcat ttctggagta ttgacaaaac ggaatttcga 5760
atcccaccca ggctgatcat tcagatatgg gacaatgaca agttttctct ggatgactac 5820
ttgggtttcc tagaacttga cttgcgtcac acgatcattc ctgcaaaatc accagagaaa 5880
tgcaggttgg acatgattcc ggacctcaaa gccatgaacc cccttaaagc caagacagcc 5940
tccctctttg agcagaagtc catgaaagga tgggtggccat gctacgcaga gaaagatggc 6000
gcccgcgtaa tggctgggaa agtggagatg acattggaaa tcctcaacga gaaggaggcc 6060
gacgagaggc ggcctgggaa ggggcgggac gaaccaaca tgaaccccaa gctggactta 6120
ccaaatcgac cagaaacctc cttcctctgg ttaccaacc catgcaagac catgaagtcc 6180
atcgtgtggc gccgctttaa gtgggtcatc atcggttgc tgttcctgct tatcctgctg 6240
ctcttcgtgg ccgtgctcct ctactctttg ccgaactatt tgtcaatgaa gattgtaaag 6300
ccaaatgtgt aacaaaggca aaggcttcat ttccagagtc atccagcaat gagagaatcc 6360
tgcctctgta gaccaacatc cagtgtgatt ttgtgtctga gaccacaccc cagtagcagg 6420
ttacgccatg tcaccgagcc ccattgattc ccagagggtc ttagtccctg aaagtcaggc 6480
caacaagcaa cgtttgcac atgttatctc ttaagtatta aaagttttat ttctaaagt 6540
ttaaatactg tttttcaaaa tatttttcaa ggtggctgg tccattttaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttgaaat tgctaaatag aattcaaaaa 6660
tctctgcac ctgaggtgat atacttcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tagaatagtt agaacaattc ttatttatgc ccacaaccat tgctatatct 6780
tgtatggatg tcataaaagt ctatttaacc tctgtaatga aactaaataa aaatgtttca 6840
cctttaaaaa aaaaaaaaaa aaaaaagggg gggccgaacc caatcgccca ttggaggggt 6900
atccaaataa tggccgcttt acannnn 6927

```

<210> 924

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 924

```

cgaccacgc gtccgatcct cccttcactg ggcacgagct tctctcccag ggcggtgcga 60
cccggagctc cagcgcccga gtctccactt cgtttgctga aacttgcttt ctaccagcta 120
agaaccatgc tgcgagtgat tgtggaatct ggcagcaata tccctaaaac gaaatttggc 180
aagccggatc ctattgtttc tgtcattttt aaggatgaga aaaagaaaac aaagaaagt 240
gataatgaat tgaaccctgt ctggaatgag attttgagat ttgacttgag gggatatacca 300
ctggactttt catcttccct tgggattatt gtgaaagatt ttgagacaat tggacaaaat 360
aaattaattg gcacggcgac tgtagccctg aaggacctga ctggtgacca gagcagatcc 420
ctgccgtaca agctgatctc cctgctaaat gaaaaagggc aagatactgg ggccaccatt 480
gacttggtag tgggtatga tccgccttct gctccacatc caaatgacct gagcggggcc 540
agcgtgccag gcatgggagg agatggggaa gaagatgaag gtgatgaaga caggttggac 600
aatgcagtca ggggccctgg gcccaagggg ccagttggga cgggtgctgga agctcagctt 660
gctcggaggc tcaccaaagt aaagaacagc cgcggtatgc tgtcaaataa gccacaggac 720
ttccagatcc gcgtccgagt gattgagggc cgacagttaa gtggtaacaa cataaggcct 780
gtggtcaaaag ttcacgtctg tggccagaca caccgaacaa gaatcaagag aggaacaac 840
cctttttttg atgagttgtt tttctacaat gtcaacatga ccccttctga attgatggat 900
gagatcatca gcatcgggtt ttataattct cactctctgc gggcagattg tctgatggg 960
gaatttaaga ttgatgttgg atttgtttat gctgaacctg gccatgctgt catgagaag 1020
tggtctcttc tcaatgacct ggaagatacc agttcaggtt ctaaaaggtta tatgaaagt 1080
agcatgtttg tcctgggaac cggagatgag cctcctcctg agagacgaga tcgtgataat 1140
gacagtgatg atgtggagag taatttggtta ctccctgctg gcattgccct ccggtgggtg 1200
accttcttgc tgaataatcta ccgagctgag gacatcccc agatggatga tgccttctca 1260

```

cagacagtaa	aggaaatatt	tggaggcaat	gcagataaga	aaaatctcgt	ggatcctttt	1320
gtagaagttt	cctttgctgg	aaaaaagggt	tgtacaaaaca	taattgagaa	aaatgcaaac	1380
ccagagtggg	atcaggtcgt	caatcttcag	atcaagtttc	cttcagtgtg	tgaaaaaata	1440
aaactaacia	tatatgactg	ggaccgtctt	actaaaaatg	atgtagtgtg	aacaacatat	1500
ctacacctct	ctaaaattgc	tgcctctggt	ggggaagtgg	aagatttctc	atcttcggga	1560
actggggctg	catcatatac	agtaaacaca	ggagaaaacag	aggtaggctt	tgttccaacg	1620
tttggaacct	gttacctgaa	tctttatgga	agccccagag	agtacacggg	attcccagac	1680
ccctatgatg	agctgaatac	tggaaaagggg	gaaggagtgt	cctacagagg	caggatcttg	1740
gttgaattag	ccacttttct	tgagaagaca	ccaccagata	aaaagcttga	gcccatttca	1800
aatgatgacc	tgctggttgt	tgagaaatac	cagcgaaggc	ggaagtacag	cctgtctgcc	1860
gtgtttcatt	cagccaccat	gttgcaagat	gttggtgagg	ccattcagtt	tgaagtcagc	1920
attgggaact	atggcaacaa	gtttgacacc	acctgtaagc	ctttggcatc	aacaactcag	1980
tacagcogtg	ctgtatttga	tggcaactac	tattattact	tgccttgggc	ccacaccaag	2040
ccagtgttta	ccctgacttc	atactgggag	gatattagtc	atcgcttggg	tgcggtgaac	2100
actctcctag	ctatggcaga	acggctgcaa	acaaatatag	aagctctaaa	atcagggata	2160
caaggtaaaa	ttcctgcaaa	ccagctggct	gaattgtggc	tgaagctgat	agatgaagtt	2220
atagaagaca	cgagatacac	gttgctcttc	acagaaggaa	aagccaacgt	cacagttctc	2280
gatactcaga	tccgaaagct	gcggtccagg	tctctctccc	aaatacatga	ggcggtctgt	2340
aggatgaggt	cggaaagccac	agatgtgaag	tccacactgg	cagaaattga	ggactggctt	2400
gataaattaa	tgcagctgac	tgaagagcca	cagaacagca	tgcctgacat	catcatctgt	2460
atgatccggg	gagagaagag	actggcctat	gcacgaattc	ccgcacatca	ggtcttgtac	2520
tccaccagtg	gtgagaatgc	atctggaaaa	tactgtggga	aaacccaaac	catctttctg	2580
aagtatccac	aggagaaaaa	caacgggcca	aagggtgcctg	tggagttgctg	agtgaacatc	2640
tggctaggct	taagtgtctg	ggagaagaag	tttaacagct	tcgcagaagg	aactttcacc	2700
gtctttgctg	aaatgtatga	aaatcaagct	ctcatgtttg	gaaaatgggg	tacttcttga	2760
ttagtaggac	gtcataagtt	ttctgatgtc	acaggaaaaa	taaaactcaa	gaggggaattt	2820
tttctgcctc	caaaaaggctg	ggaatgggaa	ggagagtggg	tagttgatcc	tgaaagaagc	2880
ttgtgactg	aggcagatgc	aggtcacacg	gagttcactg	atgaagtcta	tcagaacgag	2940
agccgctacc	ccggggcgca	ctggaagccg	cctgaggaca	cctacacgga	tgcgaaagcg	3000
gataaagcag	catcaccagc	cgagttgact	tgtcctccag	gttgggaaatg	ggaagatgat	3060
gcatggctct	atgacataaa	tcgagtgggtg	gatgagaaag	gctgggaata	tggaatcacc	3120
attcctcctg	atcataagcc	caaatcctgg	gttgagcagc	agaaaatgta	ccacactcat	3180
agacggcgaa	ggctggtccg	aaaacgcaag	aaagatttaa	cacagactgc	ttcaagcacc	3240
gcaagggcca	tggaggaatt	gcaagacca	gagggctggg	aatatgcttc	tctaattggc	3300
tggaaatttc	actggaatac	acgtagtcca	gataccttcc	gccgcagacg	ctggaggaga	3360
aaaatggctc	cttcagaaac	acatggtgca	gctgccatct	ttaaacttga	aggtgccctt	3420
ggggcagaca	ctaccgaaga	tggggatgag	aagagcctgg	agaaacagaa	gcacagtgc	3480
accactgtgt	tcggagcaaa	cacccccatt	gtttcctgca	attttgacag	agtctacatc	3540
taccatctgc	gctgctatgt	ctatcaagcc	agaaacctct	tggctttaga	taaggatagc	3600
ttttcagatc	catatgctca	tatctgtttc	ctccatcgga	gcaaaaccac	tgagatcatc	3660
cattcaaccc	tgaatccac	gtgggacca	acaattatat	tcgatgaagt	tgaaatctat	3720
ggggaacccc	aaacagttct	acagaatcca	cccaaagtta	tcattggaact	ttttgacaat	3780
gaccaagttg	gcaaaagtga	atttttagga	cgaagcattt	tctctcctgt	ggtgaaactg	3840
aactcagaaa	tggacatcac	acccaaactt	ctctggcacc	cagtaatgaa	tggagacaaa	3900
gcctgcgggg	atgttcttgt	aactgcagag	ctgattctga	ggggcaagga	tggtccaac	3960
cttcccattc	ttcccctca	aagggcgcca	aatctataca	tggtcccca	ggggatcagg	4020
cctgtgtgtc	agctcactgc	cattgagatt	ctagcttggg	gcttaagaaa	tatgaaaaac	4080
ttccagatgg	cttctatcac	atcccccagt	cttgttgtgg	agtgtggagg	agaaaggggtg	4140
gaatcggttg	tgatcaaaaa	ccttaagaag	acacccaact	ttccaagttc	tgttctcttc	4200
atgaaagtgt	tcttgcccaa	ggaggaattg	tacatgcccc	cactggtgat	caaggtcatc	4260
gaccacaggc	agtttggggc	gaagcctgtc	gtcgccagct	gcaccatcga	gcgcctggac	4320
cgctttcgct	gtgaccctta	tgcagggaaa	gaggacatcg	tcccacagct	caaagcctcc	4380
cttctgtctg	ccccaccatg	ccgggacatc	gttatcgaaa	tggagagacac	caaaccatta	4440
ctggcttcta	agctgacaga	aaaggaggaa	gaaatcgtgg	actggtggag	taaattttat	4500
gcttcctcag	gggaacatga	aaaatgcgga	cagtatatct	agaaaggcta	ttccaagctc	4560
aagatatata	attgtgaact	agaaaatgta	gcagaatttg	agggcctgac	agacttctca	4620
gatacgttca	agttgtaccg	aggcaagtcg	gatgaaaatg	aagatccttc	tgtggttggg	4680
gagtttaagg	gctcctttcg	gatctaccct	ctgcgggatg	acccagcgt	gccagcccct	4740
cccagacagt	ttcggaatt	acctgacagc	gtcccacagg	aatgcacggt	taggatttac	4800
attgttcgag	gcttagagct	ccagcccag	gacaacaatg	gcctgtgtga	cccttacata	4860
aaaataacac	tgggcaaaaa	agtcattgaa	gaccgagatc	actacattcc	caacactctc	4920

```

aaccagctct ttggcaggat gtacgaactg agctgctact tacctcaaga aaaagacctg 4980
aaaatttctg tctatgatta tgacaccttt acccgggatg aaaaagtagg agaaacaatt 5040
attgatctgg aaaaccgatt cctttcccgc tttgggtccc actgcggcat accagaggag 5100
tactgtgttt ctggagtcaa tacctggcga gatcaactga gaccaacaca gctgcttcaa 5160
aatgtcgcca gattcaaagg cttcccacaa cccatccttt ccgaagatgg gtagtagaatc 5220
agatatggag gacgagacta cagcttgatg gaatttgaag ccaacaaaat cctgcaccag 5280
cacctcgggg cccctgaaga gcggcttgct cttcacatcc tcaggactca ggggctggtc 5340
cctgagcacg tggaaacaag gactttgcac agcaccttcc agcccaacat ttcccaggga 5400
aaacttcaga tgtgggtgga tgttttcccc aagagtttgg ggccaccagg cctccttttc 5460
aacatcacac cccggaagc caagaaatac tacctgcgtg tgatcatctg gaacaccaag 5520
gacgttatct tggacgagaa aagcatcaca ggagaggaaa tgagtacat ctacgtcaaa 5580
ggctggattc ctggcaatga agaaaacaaa cagaaaacag atgtccatta cagatctttg 5640
gatggtgaag ggaattttta ctggcgattt gttttcccgt ttgactacct tccagccgaa 5700
caactctgta tcgttgcgaa aaaagagcat ttgaggagta ttgacaaac ggaatttcga 5760
atcccaccca ggctgatcat tcagatatgg gacaatgaca agttttctct ggatgactac 5820
ttgggttttc tagaacttga cttgcgtcac acgatcattc ctgcaaaatc accagagaaa 5880
tgcaggttgg acatgattcc ggacctcaaa gccatgaacc cccttaaagc caagacagcc 5940
tccctctttg agcagaagtc catgaaagga tgggtggccat gctacgcaga gaaagatggc 6000
gcccgcgtaa tggctgggaa agtgagatg acattggaaa tcctcaacga gaaggaggcc 6060
gacgagaggc cagccgggaa ggggcgggac gaacccaaca tgaaccccaa gctggactta 6120
ccaaatcgac cagaaacctc cttcctctgg ttcaccaacc catgcaagac catgaagttc 6180
atcgtgtggc gccgctttta gtgggtcatc atcggttgc tgttctgct tatcctgctg 6240
ctcttctgtg ccgtgctcct ctactctttg ccgaactatt tgtcaatgaa gattgtaaag 6300
ccaaatgtgt aacaaaggca aaggcttcat ttccagagtc atccagcaat gagagaatcc 6360
tgcctctgta gaccaacatc cagtgtgatt ttgtgtctga gaccacacc cagtagcagg 6420
ttacgccatg tcaccgagcc ccattgattc ccagagggtc ttagtcctgg aaagtccaggc 6480
caacaagcaa cgtttgcac atgttatctc ttaagtatta aaagttttat tttctaaagt 6540
ttaaatcatt tttttcaaaa tatttttcaa ggtggctggg tccatttaaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttggaat tgctaaatag aattcaaaaa 6660
tctctgcac ctgaggtgat atacttcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tagaatagtt agaacaattc ttatttatgc ccacaacat tgcataatct 6780
tgtatggatg tcataaaagt ctatttaacc tctgtaatga aactaaataa aaatgtttca 6840
cctttaaaaa aaaaaaaaaa aaaaaagggg gggccgaacc caatcgccca ttggaggggt 6900
atccaaataa tggccgcttt acannnn 6927

```

<210> 925

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 925

```

cgacccacgc gtccgatcct cccttcactg ggcacgagct tctctcccag ggcggtgcga 60
cccgagctc cagcgcccga gtctccactt cgtttgctga aacttgcttt ctaccagcta 120
agaaccatgc tgcgagtgat tgtggaatct gccagcaata tccctaaaac gaaatttggc 180
aagccggatc ctattgtttc tgtcattttt aaggatgaga aaaagaaaac aaagaaagtt 240
gataatgaat tgaaccctgt ctggaatgag attttggagt ttgacttgag gggatatacca 300
ctggactttt catcttccct tgggattatt gtgaaagatt ttgagacaat tggacaaaat 360
aaattaattg gcacggcgac tgtagccctg aaggacctga ctggtgacca gagcagatcc 420
ctgccgtaca agctgatctc cctgctaaat gaaaaagggc aagatactgg ggccaccatt 480
gacttggtga tcggctatga tccgccttct gctccacatc caaatgacct gagcggggccc 540
agcgtgccag gcattgggag agatggggaa gaagatgaag gtgatgaaga caggttggac 600
aatgcagta ggggcccctg gcccaagggg ccagttggga cggtgtcgga agctcagctt 660
gctcggaggc tcaccaaaagt aaagaacagc cggcgatgc tgtcaataaa gccacaggac 720
ttccagatcc gcgtccgagt gattgagggc cgacagttaa gtggttaaca cataaggcct 780
gtggtcaaag ttcacgtctg tggccagaca caccgaacaa gaatcaagag aggaacaac 840
cctttttttg atgagttgtt tttctacaat gtcaacatga ccccttctga attgatggat 900

```

gagatcatca	gcacccgggt	ttataattct	cactctctgc	gggcagattg	tctgatggg	960
gaatttaaga	ttgatgttg	atgtgtttat	gatgaacctg	gccatgctgt	catgagaaag	1020
tggcttcttc	tcaatgacct	ggaagatacc	agttcagggt	ctaaagggtta	tatgaaagtc	1080
agcatgtttg	tcctgggaac	cggagatgag	cctcctcctg	agagacgaga	tcgtgataat	1140
gacagtgatg	atgtggagag	taatttgtta	ctccctgctg	gcattgccct	ccggtgggtg	1200
accttcttgc	tgaaaatcta	ccgagctgag	gacatcccc	agatggatga	tgcttctca	1260
cagacagtaa	aggaaatatt	tggaggcaat	gcagataaga	aaaatctcgt	ggatcctttt	1320
gtagaagttt	cctttgctgg	aaaaaagggt	tgtacaaaca	taattgagaa	aaatgcaaac	1380
ccagagtggg	atcaggctgt	caatcttcag	atcaagtttc	cttcagtgtg	tgaaaaata	1440
aaactaacia	tatatgactg	ggaccgtctt	actaaaaatg	atgtagtgtg	aacaacatat	1500
ctacacctct	ctaaaattgc	tgccctctgt	ggggaagtgg	aagatttctc	atcttcggga	1560
actggggctg	catcatatac	agtaaacaca	ggagaaacag	aggtaggctt	tgttccaacg	1620
tttgacctt	gttacctgaa	tctttatgga	agccccagag	agtacacggg	attcccagac	1680
ccctatgatg	ccacttttct	tggaagggg	gaaggagttg	cctacagagg	caggatcttg	1740
ggtgaattag	ccacttttct	tgagaagaca	ccaccagata	aaaagcttga	gccatcttca	1800
aatgatgacc	tgctggttgt	tgagaaatac	cagcgaaggc	ggaagtacag	cctgtctgcc	1860
gtgtttcatt	cagccaccat	gttgcaagat	gttggtgagg	ccattcagtt	tgaagtacgc	1920
attgggaact	atggcaacaa	gtttgacacc	acctgtaagc	ctttggcatc	aacaactcag	1980
tacagccgtg	ctgtatttga	tggcaactac	tattattact	tgccctgggc	ccacaccaag	2040
ccagtgttta	ccctgacttc	atactgggag	gatattagtc	atcgccctgga	tcggtgaaac	2100
actctcttag	ctatggcaga	acggctgcaa	acaaatatag	aagctctaaa	atcagggata	2160
caaggtaaaa	ttcctgcaaa	ccagctggct	gaaattgtgg	tgaagctgat	agatgaagtt	2220
atagaagaca	cgagatacac	gttgccctct	acagaaggaa	aagccaacgt	cacagttctc	2280
gatactcaga	tccgaaagct	gcggtccagg	tctctctccc	aaatacatga	ggcggtctgt	2340
aggatgaggt	cggaagccac	agatgtgaag	tccacactgg	cagaaattga	ggactggctt	2400
gataaattaa	tgacagctgac	tgaagagcca	cagaacagca	tgccctgacat	catcatctgg	2460
atgatccggg	gagagaagag	actggcctat	gcacgaattc	ccgcacatca	ggtcttgtac	2520
tccaccagtg	gtgagaatgc	atctggaaaa	tactgtggga	aaacccaaac	catctttctg	2580
aagtatccac	aggagaaaaa	caacgggcca	aaggtgcctg	tggagttgcg	agtgaacatc	2640
tggctaggct	taagtgtgtg	ggagaagaag	tttaacagct	tcgcagaagg	aactttcacc	2700
gtctttgctg	aaatgtatga	aaatcaagct	ctcatgtttg	gaaaatgggg	tactttctgga	2760
ttagtaggac	gtcataagtt	ttctgatgtc	acaggaaaaa	taaaactcaa	gagggaattt	2820
tttctgcctc	caaaaggctg	ggaatgggaa	ggagagtggg	tagttgatcc	tgaaagaagc	2880
ttgctgactg	aggcagatgc	aggtcacacg	gagttcactg	atgaagtcta	tcagaacgag	2940
agccgctacc	ccggggcgga	ctggaaagcg	gccgaggaca	cctacacgga	tcggaacggc	3000
gataaagcag	catcacccag	cgagttgact	gttcctccag	gttggggaatg	ggaagatgat	3060
gcattggtctt	atgacataaa	tcgagtgggtg	gatgagaaag	gctgggaata	tggaatcacc	3120
attcctcctg	atcataagcc	caaatcctgg	gttcgagcag	agaaaatgta	ccacactcat	3180
agacggcgaa	ggctggtccg	aaaacgcaag	aaagatttaa	cacagactgc	ttcaagcacc	3240
gcaagggcca	tggaggaatt	gcaagaccaa	gagggctggg	aatatgcttc	tctaattggc	3300
tggaaatttc	actggaaaca	acgtagtcca	gataccttcc	gccgcagacg	ctggaggaga	3360
aaaatggctc	cttcagaaac	acatgggtga	ctgtgccatc	ttaaacttga	aggtgccctt	3420
ggggcagaca	ctaccgaaga	tggggatgag	aagagcctgg	agaaacagaa	gcacagtgcc	3480
accactgtgt	tcggagcaaa	cacccccatt	gtttcctgca	atcttgacag	agtctacatc	3540
taccatctgc	gctgctatgt	ctatcaagcc	agaaacctct	tggttttaga	taaggatagc	3600
ttttcagatc	catatgctca	tatctgtttc	ctccatcgga	gcaaaaccac	tgagatcatc	3660
cattcaaccc	tgaatcccac	gtgggaccaa	acaattatat	tcgatgaagt	tgaaatctat	3720
ggggaacccc	aaacagttct	acagaatcca	cccaaagtta	tcattggaact	ttttgacaat	3780
gaccaagtgg	gcaaagatga	atcttttagga	cgaagcattt	tctctcctgt	ggtgaaactg	3840
aactcagaaa	tggaatcac	acccaaactt	ctctggcacc	cagtaatgaa	tgagagacaa	3900
gcctgcgggg	atgttcttgt	aaactgcagag	ctgattctga	ggggcaagga	tggtcccaac	3960
cttcccatc	ttccccctca	aagggcgcca	aatctataca	tggtcccca	ggggatcagg	4020
cctgtggtcc	agctcactgc	cattgagatt	ctagcttggg	gcttaagaaa	tatgaaaaac	4080
ttccagatgg	cttctatcac	atccccagct	cttggtgtgg	agtgtggagg	agaaaggggtg	4140
gaatcggtgg	tgatcaaaaa	ccttaagaag	acacccaact	ttccaagttc	tgcttctctc	4200
atgaaagtgt	tcttgcccaa	ggaggaattg	tacatgcccc	cactgggtgat	caaggtcatc	4260
gaccacaggc	agtttggcgc	gaagcctgtc	gtcgccagct	gcaccatcga	gcgcctggac	4320
cgcttctcgt	gtgacctta	tgacgggaaa	gaggacatcg	tcccacagct	caaagcctcc	4380
cttctgtctg	ccccaccatg	ccgggacatc	gttatcgaaa	tggaagacac	caaaccatta	4440
ctggcttcta	agctgacaga	aaaggaggaa	gaaatcgtgg	actggtggag	taaattttat	4500
gcttcctcag	gggaacatga	aaaatgcgga	cagtatatct	agaaaggcta	ttccaagctc	4560

```

aagatatata attgtgaact agaaaatgta gcagaatttg agggcctgac agacttctca 4620
gatacgttca agttgtaccg aggcaagtcg gatgaaaatg aagatccttc tgtggttggg 4680
gagtttaagg gctcctttcg gatctaccct ctgccggatg accccagcgt gccagcccct 4740
cccagacagt ttcgggaatt acctgacagc gtcccacagg aatgcacggt taggatttac 4800
attgttcgag gcttagagct ccagccccag gacaacaatg gcctgtgtga cccttacata 4860
aaaataacac tgggcaaaaa agtcattgaa gaccgagatc actacattcc caacactctc 4920
aaccagtc tggcaggat gtacgaactg agctgctact tacctcaaga aaaagacctg 4980
aaaatttctg tctatgatta tgacaccttt acccggtatg aaaaagtagg agaaacaatt 5040
attgatctgg aaaaccgatt cctttccgcg tttgggtccc actgcggcat accagaggag 5100
tactgtgttt ctggagtcaa tacctggcga gatcaactga gaccaacaca gctgcttcaa 5160
aatgtcgcca gattcaaagg cttcccacaa cccatccttt ccgaagatgg gtagaatac 5220
agatatggag gacgagacta cagcttggat gaatttgaag ccaacaaaat cctgcaccag 5280
cacctcgggg cccctgaaga gcggttgcct cttcacatcc tcaggactca ggggctggtc 5340
cctgagcacg tggaaacaag gactttgcac agcaccttcc agcccaacat tcccaggga 5400
aaacttcaga tgtgggtgga tgttttcccc ggccaccagg cctccttttc 5460
aacatcacac cccggaaagc caagaaatac tacctgcgtg tgatcatctg gaacaccaag 5520
gacgttatct tggacgagaa aagcatcaca ggagaggaaa tgagtacat ctacgtcaa 5580
ggctggattc ctggcaatga agaaaacaaa cagaaaacag atgtccatta cagatctttg 5640
gatggtgaag ggaattttta ctggcgattt gttttcccg ttgactacct tccagccgaa 5700
caactctgta tcgttgcgaa aaaagagcat ttctggagta ttgacaaaac ggaatttca 5760
atcccaccca ggctgatcat tcagatatgg gacaatgaca agttttctct ggatgactac 5820
ttgggtttcc tagaacttga cttgcgtcac acgatcatte ctgcaaaatc accagagaaa 5880
tgcaggttgg acatgattcc ggacctcaaa gccatgaacc ccctaaagc caagacagcc 5940
tccctctttg agcagaagtc catgaaagga tgggtggccat gctacgcaga gaaagatggc 6000
gccgcgtaa tggctgggaa agtgagatg acattggaaa tcctcaacga gaaggaggcc 6060
gacgagaggc cagccgggaa ggggcgggac gaacccaaca tgaaccccaa gctggactta 6120
ccaaatcgac cagaaacctc cttcctctgg ttaccaacc catgcaagac catgaagttc 6180
atcgtgtggc gccgctttaa gtgggtcctc atcggcttgc tgttcctgct tatcctgctg 6240
ctcttcgtgg cgtgctcct ctactctttg ccgaactatt tgtcaatgaa gattgtaaag 6300
ccaaatgtgt aacaaaggca aaggcttcat ttccagagtc atccagcaat gagagaatcc 6360
tgctctgta gaccaacatc cagtgtgatt ttgtgtctga gaccacacc cagtagcagg 6420
ttacgccatg tcaccgagcc ccattgatcc ccagagggtc ttagtctctg aaagtcaggc 6480
caacaagcaa cgtttgcata atgttatctc ttaagtatta aaagttttat tttctaaagt 6540
ttaaatacatg tttttcaaaa tatttttcaa ggtggctggg tccattttaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttggaat tgctaaatag aattcaaaaa 6660
tctctgcatc ctgaggtgat atacttcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tagaatagtt agaacaattc ttatttatgc ccacaaccat tgctatat 6780
tgtatggatg tcataaaagt ctatttaacc tctgtaatga aactaaataa aaatgtttca 6840
cctttaaaaa aaaaaaaaaa aaaaaagggg gggccgaacc caatcgcta ttggaggggt 6900
atccaaataa tggcgcgttt acannnn 6927

```

<210> 926

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 926

```

cgacccacgc gtccgaccc ccttccactg ggcacgagct tctctcccag ggcggtgcga 60
cccggagctc cagcgcccga gtctccactt cgtttgctga aacttgcttt ctaccagcta 120
agaaccatgc tgcgagtgat tgtggaatct gccagcaata tccctaaaaa gaaatttggc 180
aagccgcatc ctattgtttc tgtcattttt aaggatgaga aaaagaaaaa aaagaaagtt 240
gataatgaat tgaaccctgt ctggaatgag attttgagat ttgacttgag gggatatacca 300
ctggactttt catcttccct tgggattatt gtgaaagatt ttgagacaat tggacaaaat 360
aaattaattg gcacggcgac tgtagccctg aaggacctga ctggtgacca gagcagatcc 420
ctgccgtaca agctgatctc cctgctaaat gaaaaagggc aagatactgg ggccaccatt 480
gacttggtga tcggctatga tccgccttct gctccacatc caaatgacct gagcggggcc 540

```

```

agcgtgccag gcatgggagg agatggggaa gaagatgaag gtgatgaaga caggttggac 600
aatgcagtca gggggccctgg gcccaggagg ccagttggga cgggtgcgga agctcagctt 660
gctcggaggc tcaccaaagt aaagaacagc cggcggatgc tgtcaaataa gccacaggac 720
ttccagatcc gcgctccgagt gattgagggc cgacagttaa gtggtaacaa cataaggcct 780
gtggtaaaag ttacagctctg tggccagaca caccgaacaa gaatcaagag aggaacaac 840
cctttttttg atgagttgtt tttctacaat gtcaacatga ccccttctga attgatggat 900
gagatcatca gcatccgggt ttataattct cactctctgc gggcagattg tctgatgggg 960
gaatttaaga ttgatgttgg atttgtttat gatgaacctg gccatgctgt catgagaaag 1020
tggtctcttc tcaatgaccc ggaagatacc agttcagggt cttaaagggtta tatgaaagtc 1080
agcatgtttg tcctgggaac cggagatgag cctcctcctg agagacgaga tcgtgataat 1140
gacagtgtat atgtggagag taatttggtta ctccctgctg gcattgccct ccggtgggtg 1200
accttcttgc tgaaaatcta ccgagctgag gacatcccc agatggatga tgcttctca 1260
cagacagtaa aggaaatatt tggaggcaat gcagataaga aaaatctcgt ggatcctttt 1320
gtgaagttt ccttttctgg aaaaaagggt taattgagaa aatgcaaac 1380
ccagagtggg atcaggctgt caatcttcag atcaagtttc cttcagtggt tgaaaaata 1440
aaactaacia tatatgactg ggaccgtctt actaaaaatg atgtagttgg aacaacatat 1500
ctacacctct ctaaaattgc tgcctctggt ggggaagtgg aagatttctc atcttcggga 1560
actggggctg catcatatac agtaaacaca ggagaaacag aggtaggctt tgtccaacg 1620
tttgacott gttacctgaa tctttatgga agcccagag agtacacggg attcccagac 1680
ccttatgat agctgaatac tggaaagggg gaaggagttg cctacagagg caggatcttg 1740
gttaaatag ccacttttct tgagaagaca caccagata aaaagcttga gccatttca 1800
aatgatgacc tgctggttgt tgagaaatac cagcgaaggc ggaagtacag cctgtctgcc 1860
gtgtttcatt cagccaccat gttgcaagat gttggtgagg ccattcagtt tgaagtcagc 1920
attgggaact atggcaacaa gtttgacacc acctgtaagc ctttggcatc aacaactcag 1980
tacagccgtg ctgtatttga tggcaactac tattattact tgccttgggc ccacaccaag 2040
ccagttgtta ccctgacttc atactgggag gatattagtc atcgctgga tgcggtgaac 2100
actctctag ctatggcaga acggtgcaa acaaatatag aagctctaaa atcagggata 2160
caaggtataa ttcttgcaaa ccagctggct gaattgtggc tgaagctgat agatgaagt 2220
atagaagaca cgagatacac gttgcctctc acagaaggaa aagccaacgt cacagttctc 2280
gatactcaga tccgaaagct gcggtccagg tctctctccc aaatacatga ggcggtctg 2340
aggatgaggt cggaagccac agatgtgaag tccacactgg cagaaattga ggactggctt 2400
gataaattaa tgcagctgac tgaagagcca cagaacagca tgcctgacat catcatctgg 2460
atgatccggg gagagaagag actggcctat gcacgaattc ccgcacatca ggtcttgta 2520
tccaccagt gtgagaatgc atctggaaaa tactgtggga aaacccaaac catctttctg 2580
aaggtccac aggagaaaaa caacggggcca aaggtgcctg tggagttgcg agtgaacat 2640
tggctaggct aaagtgtgtt ggagaagaag tttaacagct tgcgagaagg aactttcacc 2700
gtctttgctg aaatgtatga aaatcaagct ctcatgtttg gaaaatgggg tacttctgga 2760
ttagtaggac gtcataagtt ttctgatgtc acaggaaaaa taaaactcaa gagggaaatt 2820
tttctgcctc caaaaggctg ggaatgggaa ggagagtggg tagttgatcc tgaaagaagc 2880
ttgctgactg aggcagatgc aggtcacacg gagttcactg atgaagtcta tcagaacgag 2940
agccgctacc ccggggcgga ctggaagccg gccaggaca cctacacgga tgcgaacggc 3000
gataaagcag catcaccag cgagttgact tgcctccag gttgggaatg ggaagatgat 3060
gcatggtctt atgacataaa tgcagtggtg gatgagaaag gctgggaata tggaaatcacc 3120
attcctcctg atcataagcc caaatcctgg gttgcagcag agaaaatgta ccacactcat 3180
agacggcgaa ggctggtccg aaaacgcaag aaagatttaa cacagactgc ttcaagcacc 3240
gcaagggcca tggaggaatt gcaagaccaa gagggctggg aatatgcttc tctaattggc 3300
tggaaatttc actggaaaca acgtagttca gataccttcc gccgcagacg ctggaggaga 3360
aaaatggctc cttcagaaac acatggtgca gctgccatct ttaaacttga aggtgccctt 3420
ggggcagaca ctaccgaaga tggggatgag aagagcctgg agaaacagaa gcacagtgc 3480
accactgtgt tcggagcaaa caccocatt gtttctgca attttgacag agtctacatc 3540
taccatctgc gctgctatgt ctatcaagcc agaaacctct tggctttaga taaggatagc 3600
ttttcagatc catatgctca tatctgtttc ctccatcgga gcaaaaccac tgagatcatc 3660
cattcaaccc tgaatcccac gtgggaccaa acaattatat tcgatgaagt tgaaatctat 3720
ggggaacccc aaacagttct acagaatcca cccaaagtta tcatggaact ttttgacaat 3780
gaccaagtgg gcaaagatga attttttaga cgaagcattt tctctcctgt ggtgaaactg 3840
aactcagaaa tggacatcac acccaaactt ctctggcacc cagtaatgaa tggagacaaa 3900
gcctgcgggg atgttcttgt aactgcagag ctgattctga ggggcaagga tggctccaac 3960
cttcccattc tttcccctca aaggcgcca aatctataca tgggtcccca ggggatcagg 4020
cctgtggtcc agctcactgc cattgagatt ctactgtggg gcttaagaaa tatgaaaaac 4080
ttccagatgg cttctatcac atccccagt cttgttgtgg agtgtggagg agaaagggtg 4140
gaatcgggtg tgatcaaaaa ccttaagaag acaccaact ttccaagttc tgttctcttc 4200

```

```

atgaaagtgt tcttgcccaa ggaggaattg tacatgcccc cactggtgat caaggtcatc 4260
gaccacaggc agtttgggcg gaagcctgtc gtcggccagt gcaccatcga gcgcctggac 4320
cgctttcgct gtgaccctta tgcagggaag gaggacatcg tcccacagct caaagcctcc 4380
cttctgtctg cccaccatg ccgggacatc gttatcgaaa tggaaagacac caaaccatta 4440
ctggcttcta agctgacaga aaaggaggaa gaaatcgtgg actggtggag taaattttat 4500
gcttcctcag gggaacatga aaaatgcgga cagtatatcc agaaaggcta ttccaagctc 4560
aagatatata attgtgaact agaaaatgta gcagaatttg agggcctgac agacttctca 4620
gatacgttca agttgtaccg aggcaagtgc gatgaaaatg aagatccttc tgtggttggg 4680
gagtttaagg gctcctttcg gatctaccct ctgccggatg accccagcgt gccagcccct 4740
cccagacagt ttcgggaatt acctgacagc gtcccacagg aatgcacggg taggatttac 4800
attgttcgag gcttagagct ccagccccag gacaacaatg gcctgtgtga ccctacata 4860
aaaataacac tgggcaaaaa agtcattgaa gaccgagatc actacattcc caacactctc 4920
aaccagctct ttggcaggat gtacgaactg agctgctact tacctcaaga aaaagacctg 4980
aaaatttctg tctatgatta tgacaccttt acccgggatg aaaaagtagg agaaacaatt 5040
attgatctgg aaaaccgatt cctttccgcg tttgggtccc actgcggcat accagaggag 5100
tactgtgttt ctggagtcaa tacctggcga gatcaactga gaccaacaca gctgcttcaa 5160
aatgtcgcca gattcaaagg cttcccacaa cccatccttt ccgaagatgg gagtagaatc 5220
agatatggag gacgagacta cagcttggat gaatttgaag ccaacaaaat cctgcaccag 5280
cacctcgggg cccctgaaga gcgcttggct cttcacatcc tcaggactca ggggctgggc 5340
cctgagcacg tggaaacaag gactttgcac agcaccttcc agcccaacat ttcccaggga 5400
aaatttcaga tgtgggtgga tgttttcccc aagagtttgg gccaccagg ccctcctttc 5460
aacatcacac cccggaaaagc caagaaatac tacctgcgtg tgatcatctg gaacaccaag 5520
gacgttatct tggacgagaa aagcatcaca ggagaggaaa tgagtacat ctacgtcaaa 5580
ggctggattc ctggcaatga agaaaacaaa cagaaaacag atgtccatta cagatctttg 5640
gatggtgaag ggaattttaa ctggcgattt gttttcccgt ttgactacct tccagccgaa 5700
caactctgta tcgttgcgaa aaaagagcat ttctggagta ttgacaaaac ggaatttcga 5760
atcccaccca ggctgatcat tcagatatgg gacaatgaca agttttctct ggatgactac 5820
ttgggttttc tagaacttga cttgcgtcac acgatcattc ctgcaaaatc accagagaaa 5880
tgcaggttgg acatgattcc ggacctcaaa gccatgaacc ccttaaagc caagacagcc 5940
tccctctttg agcagaagtc catgaaagga tgggtggccat gctacgcaga gaaagatggc 6000
gcccgcgtaa tggctgggaa agtggagatg acattggaaa tcctcaacga gaaggaggcc 6060
gacgagaggc cagccgggaa ggggcgggac gaacccaaca tgaaccccaa gctggactta 6120
ccaaatcgac cagaaacctc cttcctctgg ttcaaccaacc catgcaagac catgaagttc 6180
atcgtgtggc gccgctttaa gtgggtcatc atcggttgc tgttctgtct tatcctgtct 6240
ctcttcgttg ccgtgctcct ctactctttg ccgaactatt tgtcaatgaa gattgtaaag 6300
ccaaatgtgt aacaaaggca aaggcttcat ttccagagtc atccagcaat gagagaatcc 6360
tgctctgtga gaccaacatc cagtgtgatt ttgtgtctga gaccacacc cagtagcagg 6420
ttacgccatg tcaccgagcc ccattgatcc ccagagggtc ttagtcctgg aaagtcaggc 6480
caacaagcaa cgtttgcatc atgttatctc ttaagtatta aaagttttat tttctaaagt 6540
ttaaatacatg tttttcaaaa tatttttcaa ggtggctggg tccatttaaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttggaatg tgctaaatag aattcaaaaa 6660
tctctgcata ctgaggtgat atacttcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tagaatagt agaacaattc ttatttatgc ccacaacct tgctatat 6780
tgtatggatg tcataaaagt ctatttaacc tctgtaatga aactaaataa aaatgtttca 6840
cctttaaaaa aaaaaaaaaa aaaaaagggg gggccgaacc caatcgcta ttggaggggt 6900
atccaaataa tggccgcttt acannnn 6927

```

<210> 927

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 927

```

cgaccacgc gtccgatcct cccttcaactg ggcacgagct tctctcccag ggcggtgcga 60
cccggagctc cagcgcccga gtctccactt cgtttgctga aacttgcttt ctaccagcta 120
agaacctatg tcgagtgat tgtggaatct gccagcaata tccctaaaaa gaaatttggc 180

```



```

aagccggatc ctattgtttc tgtcattttt aaggatgaga aaaagaaaac aaagaaagtt 240
gataatgaat tgaaccctgt ctggaatgag attttggagt ttgacttgag gggatatacca 300
ctggactttt catcttccct tgggattatt gtgaaagatt ttgagacaat tggacaaaat 360
aaattaattg gcacggcgac tgtagccctg aaggacctga ctggtgacca gagcagatcc 420
ctgccgtaca agctgatctc cctgctaaat gaaaaagggc aagatactgg ggccaccatt 480
gacttgggtga tcggctatga tccgccttct gctccacatc caaatgacct gagcggggccc 540
agcgtgccag gcatgggagg agatggggaa gaagatgaag gtgatgaaga caggttgagc 600
aatgcagtca ggggccctgg gcccaagggg ccagttggga cgggtgctgga agctcagctt 660
gctcggaggc tcaccaaagt aaagaacagc cgccggatgc tgtcaaataa gccacaggac 720
ttccagatcc gcgctccagt gattgagggc cgacagttaa gtggtaacaa cataaggcct 780
gtggtcaaaag ttcacgtctg tggccagaca caccgaacaa gaatcaagag aggaacaac 840
cctttttttg atgagttgtt tttctacaat gtcaacatga ccccttctga attgatggat 900
gagatcatca gcatccgggt ttataattct cactctctgc gggcagattg tctgatggg 960
gaatttaca gaattgttg atttgtttat gatgaacctg gccatgctgt catgagaaag 1020
tggtctcttc tcaatgacct ggaagatacc agttcaggtt ctaaaggtta tatgaaagtc 1080
agcatgtttg tcctgggaac cggagatgag cctcctcctg agagacgaga tcgtgataat 1140
gacagtgatg atgtggagag taatttggtt ctccctgctg gcattgccct ccggtgggtg 1200
accttcttgc tgaataatcta ccgagctgag gacatcccc agatggatga tgccttctca 1260
cagacagtaa aggaaatatt tggaggcaat gcagataaga aaaatctcgt ggatcctttt 1320
gtagaagttt cctttgctgg aaaaaaggtt tgtacaaaca taattgagaa aaatgcaaac 1380
ccagatggga atcaggtcgt caatcttcag atcaagtttc cttcagtggt tgaaaaata 1440
aaactaacaa tatatgactg ggaccgtctt atcaaaaatg atgtagttgg aacaacatat 1500
ctacacctct ctaaaattgc tgcctctggt ggggaagtgg aagatttctc atcttcggga 1560
actggggctg catcatatac agtaaacaca ggagaaacag aggtaggctt tgttccaacg 1620
tttgaccctt gttacctgaa tctttatgga agccccagag agtacacggg attcccagac 1680
ccctatgatg agctgaatac tggaaagggg gaaggagttg cctacagagg caggatcctg 1740
gttgaattag ccacttttct tgagaagaca ccaccagata aaaagcttga gcccatttca 1800
aatgatgacc tgctggttgt tgagaaatac cagcgaaggc ggaagtacag cctgtctgcc 1860
gtgtttcatt cagccacct gttgcaagat gttggtgagg ccattcagtt tgaagtcagc 1920
attgggaact atggcaacaa gtttgacacc cctgtaagc ctttggcatc aacaactcag 1980
tacagccgtg ctgtatttga tggcaactac tattattact tgcttgggc ccacaccaag 2040
ccagttgtta ccctgacttc atactgggag gatattagtc atcgctgga tgcggtgaac 2100
actctcctag ctatggcaga acggctgcaa acaaatatag aagctctaaa atcagggata 2160
caaggtaaaa ttcctgcaaa ccagctggct gaattgtggc tgaagctgat agatgaagtt 2220
atagaagaca cgagatacac gttgcctctc acagaaggaa aagccaacgt cacagttctc 2280
gatactcaga tcgaaagct gctgtccagg tctctctccc aaatacatga ggcggtctg 2340
aggatgaggt cggaaagccac agatgtgaag tccacactgg cagaaattga ggactggctt 2400
gataaattaa tgcagctgac tgaagagcca cagaacagca tgctgacat catcatctgg 2460
atgatccggg gagagaagag actggcctat gcaagaaatc ccgcacatca ggtctgtac 2520
tccaccagtg gtgagaatgc atctggaaaa tactgtggga aaacccaaac catctttctg 2580
aagtatccac aggagaaaaa caacgggcca aaggtgcctg tggagttgcg agtgaacatc 2640
tggttaggtt taagtgtgtt ggagaagaag tttaacagct tcgcagaagg aactttcacc 2700
gtctttgtgt aaatgtatga aatatcaagc ctcatgtttg gaaaaatggg tacttctgga 2760
ttagtaggac gtcataagtt ttctgatgtc acaggaaaaa taaaactcaa gagggaattt 2820
tttctgcctc caaaaggctg ggaatgggaa ggagagtggg tagttgatcc tgaaagaagc 2880
ttgctgactg aggcagatgc aggtcacacg gagttcactg atgaagtcta tcagaacgag 2940
agccgctacc ccgggggcga ctggaagccg gccgaggaca cctacacgga gttgggaatg 3000
gataaagcag catcaccag cgagttgact tgtcctccag gttggaatg ggaagatgat 3060
gcatggtctt atgacataaa tcgagtgggt gatgagaaag gctgggaata tggaaatcac 3120
attcctcctg atcataagcc caaatcctgg gttgcagcag agaaaatgta ccacactcat 3180
agacggcgaa ggctggtccg aaaacgcaag aaagatttaa cacagactgc ttcaagcacc 3240
gcaagggcca tggaggaatt gcaagaccaa gagggctggg aatatgcttc tctaattggc 3300
tggaatttct actggaaaca acgtagttca gataccttcc gccgcagacg ctggaggaga 3360
aaaatggctc cttcagaaac acatggtgca gctgccatct ttaaacttga aggtgccctt 3420
ggggcagaca ctaccgaaga tggggatgag aagagcctgg agaaacagaa gcacagtgcc 3480
accactgtgt tcggagcaaa caccoccatg gtttctctga attttgacag agtctacatc 3540
taccatctgc cctgtatgt ctatcaagcc tggttttaga taaggatagc 3600
ttttcagatc catatgctca tatctgtttc ctccatcgga gcaaaaaccac tgagatcatc 3660
cattcaaccc tgaatcccac gtgggaccaa acaattatat tcgatgaagt tgaaatctat 3720
ggggaacccc aaacagttct acagaatcca ccaaagttta tcatggaact ttttgacaat 3780
gaccaagtgg gcaaagatga attttttagga cgaagcattt tctctcctgt ggtgaaactg 3840

```



```

aactcagaaa tggacatcac acccaaactt ctctggcacc cagtaatgaa tggagacaaa 3900
gcctgcgggg atgttcttgt aactgcagag ctgattctga ggggcaagga tggctccaac 3960
cttcccattc tccccctca aaggcgcca aatctataca tggccccca ggggatcagg 4020
cctgtggtcc agctcactgc cattgagatt ctagcttggg gcttaagaaa tatgaaaaac 4080
ttccagatgg cttctatcac atccccagt cttgttgtgg agtgtggagg agaaaggggtg 4140
gaatcggtgg tgatcaaaaa ccttaagaag acaccaact ttccaagttc tgttctcttc 4200
atgaaagtgt tcttgcccaa ggaggaattg tacatgcccc cactggtgat caaggtcatc 4260
gaccacaggc agtttgggcg gaagcctgtc gtcggccagt gcaccatcga gcgcctggac 4320
cgctttcgct gtgaccctta tgcagggaaa gaggacatcg tcccacagct caaagcctcc 4380
cttctgtctg cccaccatg ccgggacatc gttatcgaaa tggagacac caaaccatta 4440
ctggcttcta agctgacaga aaaggaggaa gaaatcgtgg actggtggag taaattttat 4500
gcttcctcag gggaacatga aaaatgcgga cagtatatcc agaaaggcta ttccaagctc 4560
aagatatata attgtgaact agaaaatgta gcagaatttg agggcctgac agacttctca 4620
gatcagttca attgttaccg aggcaaatg gatgaaaatg aagatccttc tgtggttggg 4680
gagtttaagg gctcctttcg gatctaccct ctgccgatg accccagcgt gccagcccct 4740
cccagacagt ttcgggaatt acctgacagc gtcccacagg aatgcacggg taggatttac 4800
attgttcgag gcttagagct ccagccccag gacaacaatg gcctgtgtga cccttacata 4860
aaaataacac tgggcaaaaa agtcattgaa gacogagatc actacattcc caacactctc 4920
aaccagtcct ttggcaggat gtacgaactg agctgctact tacctcaaga aaaagacctg 4980
aaaatttctg tctatgatta tgacaccttt acccgggatg aaaaagtagg agaaacaatt 5040
attgatctgg aaaaccgatt cctttcccg c tttgggtccc actgcggcat accagaggag 5100
tactgtgttt ctggagtcaa taacctggcg gatcaactga gaccaacaca gctgctcaa 5160
aatgtcgcca gattcaaagg cttcccacaa cccatccttt ccgaagatgg gtagaatac 5220
agatatggag gacgagacta cagcttggat gaatttgaag ccaacaaaat cctgcaccag 5280
cacctcgggg cccctgaaga gcggttggct ctccacatcc tcaggactca ggggctggtc 5340
cctgagcacg tggaaacaag gactttgcac agcaccttcc agcccaacat ttcccaggga 5400
aaacttcaga tgtgggtgga tgttttcccc aagagtttgg ggccaccagg cctcctttc 5460
aacatcacac cccgaaaagc caagaaatc tacctgcgtg tgatcatctg gaacaccaag 5520
gacgttatct tggacgagaa aagcatcaca ggagaggaaa tgagtacat ctacgtcaa 5580
ggctggattc ctggcaatga agaaaacaaa cagaaaacag atgtccatta cagatctttg 5640
gatggtgaag ggaattttaa ctggcgattt gttttcccg ttagactacct tccagccgaa 5700
caactctgta tcgttgcgaa aaaagagcat ttctggagta ttgacaaaac ggaatttcga 5760
atcccccca ggctgatcat tcagatatgg gacaatgaca agttttctct ggatgactac 5820
ttgggtttcc tagaactga cttgcgtcac acgatcattc ctgcaaaatc accagagaaa 5880
tgaggttgg acatgattcc ggacctcaaa gccatgaacc cccttaaagc caagacagcc 5940
tccctcttgg agcagaagtc catgaaagga tgggtggccat gctacgcaga gaaagatggc 6000
gcccgcgtaa tggctgggaa agtgagatg acattggaaa tcctcaacga gaaggaggcc 6060
gacgagaggc cagccgggaa gggcggggac gaaccaca catgcaagac gctggactta 6120
ccaaatcgac cagaaacctc cttcctctgg ttcaccaacc catgcaagac catgaagttc 6180
atcgtgtggc gccgctttaa gtgggtcatc atcggttgc tgttctgtct tatcctgctg 6240
ctctctgtgg ccgtgctcct ctactctttg ccgaactatt tgtcaatgaa gattgtaaag 6300
ccaaatgtgt aacaaaggca aaggcttcac ttccagatc atccagcaat gagagaatcc 6360
tgcctctgta gaccaacatc cagtgtgatt ttgtgtctga gaccacacc cagtagcagg 6420
ttacgccatg tcaccgagcc ccattgattc ccagagggtc ttagtcctgg aaagtcaggc 6480
caacaagcaa cgtttgcac atgttatctc ttaagtatta aaagttttat tttctaaagt 6540
ttaaatcatg tttttcaaaa ttttttcaa ggtggctggg tccattttaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttgaaat tgctaaatag aattcaaaaa 6660
tctctgcac ctgaggtgat atacttcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tagaatagtt agaacaattc ttatttatgc ccacaacct tgctatattt 6780
tgtatggatg tcataaaagt ctatttaacc tctgtaatga aactaaataa aaatgtttca 6840
cctttaaaaa aaaaaaaaaa aaaaaagggg gggccgaacc caatcgcta ttggaggggt 6900
atccaaataa tggccgcttt acannnn 6927

```

<210> 928

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A, T, C or G

<400> 928

```

cgacccacgc gtccgatcct cccttccactg ggcacgagct tctctcccag ggcggtgcga 60
cccggagctc cagcgcccga gtctccactt cgtttgctga aacttgcttt ctaccagcta 120
agaacctatg tgcgagtgat tgtggaatct gccagcaata tccctaaaac gaaatttggc 180
aagccggatc ctattgtttc tgtcattttt aaggatgaga aaaagaaaac aaagaaagtt 240
gataatgaat tgaaccctgt ctggaatgag attttgaggt ttgacttgag ggtatacca 300
ctggactttt catcttccct tgggattatt gtgaaagatt ttgagacaat tggacaaaat 360
aaattaattg gcacggcgac tgtagccctg aaggacctga ctggtgacca gagcagatcc 420
ctgccgtaca agctgatctc cctgctaaat gaaaaagggc aagatactgg ggccaccatt 480
gacttggtga tcggetatga tccgccttct gctccacatc caaatgacct gagcgggccc 540
agcgtgccag gcatggggag agatggggaa gaagatgaag gtgatgaaga caggttgga 600
aatgacgtca ggggccctgg gcccaagggg ccagttggga cgggtgcgga agctcagctt 660
gctcggagtc tcaccaagtc aaagaacagc cgcgggatgc tgtcaaataa gccacaggca 720
ttccagatcc gcgtccgagt gattgagggc cgacagttaa gtggttaaca cataaggcct 780
gtggtcaaaag ttcacgtctg tggccagaca caccgaacaa gaatcaagag aggaacaac 840
cctttttttg atgagttgtt tttctacaat gtcaacatga ccccttctga attgatggat 900
gagatcatca gcatccgggt ttataattct cactctctgc ggcagattg tctgatggg 960
gaatttaaga ttgatgttgg atttgtttat gatgaacctg gccatgctgt catgagaaa 1020
tggcttcttc tcaatgacct ggaagatacc agttcaggtt ctaaagggtt tatgaaagtc 1080
agcattgttg tcctgggaac cggagatgag cctcctctg agagacgaga tcgtgataa 1140
gacagtgatg atgtggagag taatttggtt tccctgctg gcattgccct ccggtgggtg 1200
accttcttgc tgaaaatcta ccgagctgag gacatcccc agatggatga tgccttctca 1260
cagacagtaa aggaaatatt tggaggcaat gcagataaga aaaatctcgt ggatcctttt 1320
gtagaagttt cctttgctgg aaaaaaggtt tgtacaaaca taattgagaa aaatgcaaac 1380
ccagagtggg atcaggtcgt caatcttcag atcaagtttc cttcagtggt tgaaaaaata 1440
aaactaacaa tatatgactg ggaccgtctt actaaaaatg atgtagtgg aacaacatat 1500
ctacacctct ctgaaattgc tgcctctggt ggggaagtgg aagatttctc atcttcggga 1560
actggggctg catcatatac agtaaacaca ggagaaacag aggtaggctt tgtccaacg 1620
tttgaccctt gttacctgaa tctttatgga agcccagag agtacacggg attcccagac 1680
ccctatgatg agctgaatac tggaaagggg gaaggagttg cctacagagg caggatcttg 1740
gttgaaattg ccacttttct tgagaagaca ccaccagata aaaagcttga gccatttca 1800
aatgatgacc tgctggttgt tgagaaatac cagcgaaggc ggaagtacag cctgtctgcc 1860
gtgtttcatt cagccaccat gttgcaagat gttggtgagg ccattcagtt tgaagtacg 1920
attgggaact atggcaacaa gtttgacacc cctgtgaagc ctttggcatc aacaactcag 1980
tacagccgtg ctgtatttga tggcaactac tattattact tgccttgggc ccacaccaag 2040
ccagttgtta ccctgacttc atactgggag gatattagtc atcgctgga tgcggtgaac 2100
actctcctag ctatggcaga acggctgcaa acaaatatag aagctctaaa atcagggata 2160
caaggtaaaa ttcctgcaaa ccagctggct gaattgtggc tgaagctgat agatgaagtt 2220
atagaagaca cgagatacac gttgcctctc acagaaggaa aagccaacgt cacagttctc 2280
gatactcaga tccgaaagct gcggtccagg tctctctccc aaatacatga ggcggtgtg 2340
aggatgaggt cggagccac agatgtgaag tccacactgg cagaaattga ggactggctt 2400
gataaattaa tgcagctgac tgaagagcca cagaacagca tgcctgacat catcatctg 2460
atgatccggg gagagaagag actggcctat gcacgaattc ccgcacatca ggtcttgtac 2520
tccaccagtg gtgagaatgc atctggaaaa tactgtggga aaacccaaac catctttctg 2580
aagtatccac aggagaaaaa caacgggcca aaggtgcctg tggagttgcg agtgaacatc 2640
tggctaggct taagtgtgtt ggagaagaag tttaacagct tgcgagaagg aactttcacc 2700
gtctttgctg aaatgtatga aaatcaagct ctcattgttt gaaaatggg tactttctga 2760
ttagtaggac gtcataagtt ttctgatgtc acaggaaaaa taaaactcaa gagggaaatt 2820
tttctgcctc caaaaggctg ggaatgggaa ggagagtggg taagttgatc tgaaagaagc 2880
ttgctgactg aggcagatgc aggtcacacg gagttcactg atgaagtcta tcagaacgag 2940
agccgctacc cggggggcga ctggaagccg gcogaggaca cctacacgga tgcgaacggc 3000
gataaagcag catcaccag cgagttgact tgtcctccag gttgggaatg ggaagatgat 3060
gcatggtctt atgacataaa tcgagtgttg gatgagaaag gctgggaata tggaaatcac 3120
attcctcctg atcataagcc caaatcctgg gttgcagcag agaaaatgta ccacactcat 3180
agacggcgaa ggtgtgtccg aaaacgcaag aaagatttaa cacagactgc ttcaagcacc 3240
gcaagggccca tggaggaatt gcaagaccaa gagggctggg aatatgcttc tctaattggc 3300
tggaaatttc actggaaaca acgtagtcca gataccttcc gccgcagacg ctggaggaga 3360
aaaatggctc cttcagaaac acatggtgca gctgccatct ttaaacttga aggtgccctt 3420
ggggcagaca ctaccgaaga tggggatgag aagagcctgg agaaacagaa gcacagtgcc 3480

```

```

accactgtgt tgggagcaaa cccccccatt gtttcctgca attttgacag agtctacatc 3540
taccatctgc gctgctatgt ctatcaagcc agaaacctct tggctttaga taaggatagc 3600
ttttcagatc catatgctca tatctgtttc ctccatcgga gcaaaaccac tgagatcatc 3660
cattcaaccc tgaatcccac gtgggaccaa acaattatat tcgatgaagt tgaaatctat 3720
ggggaacccc aaacagttct acagaatcca ccaaagttta tcatggaact ttttgacaat 3780
gaccaagtgg gcaaagatga attttttagga cgaagcattt tctctcctgt ggtgaaactg 3840
aactcagaaa tggacatcac acccaaactt ctctggcacc cagtaatgaa tggagacaaa 3900
gcctgcgggg atgttcttgt aactgcagag ctgattctga ggggcaagga tggctccaac 3960
cttcccattc tccccctca aaggcgcca aatctataca tgggtcccca ggggatcagg 4020
cctgtggtcc agctcactgc cattgagatt ctagcttggg gcttaagaaa tatgaaaaac 4080
ttccagatgg cttctatcac atccccagt cttgttggg agtgtggagg agaaaggggtg 4140
gaatcggtgg tgatcaaaaa ccttaagaag acaccaact ttccaagttc tgttctcttc 4200
atgaaagtgt tcttgcccaa ggaggaattg tacatgcccc cactggtgat caaggtcatc 4260
gaccacaggc agtttggcg gaagcctgtc gtcggccagt gcaccatcga gcgcctggac 4320
cgctttcgct gtgaccctta tgcagggaaa gaggacatcg tcccacagct caaagcctcc 4380
cttctgtctg cccaccatg ccgggacatc gttatcgaaa tgggaagacac caaaccatta 4440
ctggcttcta agctgacaga aaaggaggaa gaaatcgtgg actggtggag taaattttat 4500
gcttcctcag gggaacatga aaaatgcgga cagtatatcc agaaaggcta ttccaagctc 4560
aagatatata attgtgaact agaaaatgta gcagaatttg agggcctgac agacttctca 4620
gatacgttca agttgtaccg aggcaagtgc gatgaaaatg aagatccttc tgtggttga 4680
gagtttaagg gctcctttcg gatctaccct ctgcgggatg accccagcgt gccagccctc 4740
cccagacagt ttcgggaatt acctgacagc gtcccacagg aatgcacggt taggatttac 4800
attgttcgag gcttagagct ccagccccag gacaacaatg gcctgtgtga cccttacata 4860
aaaataacac tgggcaaaaa agtcattgaa gaccgagatc actacattcc caacactctc 4920
aaccagctct ttggcaggat gtacgaactg agctgctact tacctcaaga aaaagacctg 4980
aaaatttctg tctatgatta tgacaccttt acccgggatg aaaaagtagg agaaacaatt 5040
attgatctgg aaaaccgatt cctttccgcg tttgggtccc actgcggcat accagaggag 5100
tactgtgttt ctggagtcaa tacctggcga gatcaactga gaccaacaca gctgctcaa 5160
aatgtcgcca gattcaaaag cttcccacaa cccatccttt ccgaagatgg gattagttac 5220
agatatggag gacgagacta cagcttggat gaatttgaag ccaacaaaat cctgaccag 5280
cacctcgggg cccctgaaga gcggttgcct cttcacatcc tcaggactca ggggctggtc 5340
cctgagcacg tggaaacaag gactttgcac agcaccttcc agccaacat ttcccaggga 5400
aaacttcaga tgtgggtgga tgttttcccc aagagtttgg ggccaccagg ccctcctttc 5460
aacatcacac cccggaagc caagaaatac tacctgcgtg tgatcatctg gaacaccaag 5520
gagtttatct tggacgagaa aagcatcaca ggagaggaaa tgagtacat ctacgtcaaa 5580
ggctggattc ctggcaatga agaaaacacag atgtccatta cagatctttg 5640
gatggtgaag ggaattttta ctggcgattt gttttccgct ttgactacct tccagccgaa 5700
caactctgta tcgttgcgaa aaaagagcat ttctggagta ttgacaaac ggaatttcga 5760
atcccacca ggctgatcat tcagatatgg gacaatgaca agttttctct ggatgactac 5820
ttgggtttcc tagaacttga cttgcgtcac acgatcattc ctgcaaaaatc accagagaaa 5880
tgcaggttg acatgattcc ggacctcaa gccatgaacc cccttaaagc caagacagcc 5940
tccctctttg agcagaagtc catgaaagga tgggtggccat gctacgcaga gaaagatggc 6000
gcccgcgtaa tggctgggaa agtggagatg acattggaaa tcctcaacga gaaggaggcc 6060
gacgagaggc cagccgggaa gggcggggac gaacccaaca tgaaccccaa gctggactta 6120
ccaaatcgac cagaaacctc cttcctctgg ttaccaacc catgcaagac catgaagttc 6180
atcgtgtggc gccgctttaa gtgggtcatc atcggcttgc tgttctgtct tatcctgctg 6240
ctcttcgtgg ccgtgctcct ctactctttg ccgaactatt tgtcaatgaa gattgtaaag 6300
ccaaatgtgt aacaaaggca aaggcttcat ttccagagtc atccagcaat gagagaatcc 6360
tgcctctgta gaccaacatc cagtgtgatt ttgtgtctga gaccacacc cagtagcagg 6420
ttacgccatg tcaccgagcc ccattgattc ccagaggtc ttagtcctgg aaagtcaggc 6480
caacaagcaa cgtttgcac atgttatctc ttaagtatta aaagttttat tttctaaagt 6540
ttaaatcatg tttttcaaaa tatttttcaa ggtggctggg tccattttaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttgaaat tgctaaatag aattcaaaaa 6660
tctctgcac ctgaggtgat atacttcata tttgtaatca actgaaagag ctgtcatta 6720
taaaatcagt tagaatagtt agaacaattc ttatttatgc ccacaaccat tgctatattt 6780
tgtatggatg tcataaaagt ctattttaacc tctgtaatga aactaaataa aaatgtttca 6840
cctttaaaaa aaaaaaaagg gggccgaacc caatcgcta ttggaggggt 6900
atccaaataa tggcgcgttt acannnn 6927

```

<210> 929

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 929

```

cgacccacgc gtccgatcct cccttcaactg ggcacgagct tctctcccag ggcggtgcga 60
cccgagctc cagcgcccga gtctccactt cgtttgetga aacttgcttt ctaccagcta 120
agaacctgac tgcgagtgat tgtggaatct gccagcaata tccctaaaac gaaatttggc 180
aagccgcatc ctattgtttc tgtcattttt aaggatgaga aaaagaaaac aaagaaagt 240
gataatgaat tgaaccctgt ctggaatgag attttggagt ttgacttgag gggatatacca 300
ctggactttt catcttccct tgggattatt gtgaaagatt ttgagacaat tggacaaaat 360
aaattaattg gcacggcgac tgtagccctg aaggacctga ctggtgacca gagcagatcc 420
ctgccgtaca agctgatctc cctgctaaat gaaaaagggc aagatactgg ggccaccatt 480
gacttggtga tccgctatga tccgccttct gctccacatc caaatgacct gagcgggccc 540
agcgtgccag gcatgggagg agatggggaa gaagatgaag gtgatgaaga caggttggac 600
aatgcagtca ggggccctgg gcccaagggg ccagttggga cgggtgcgga agctcagctt 660
gctcggaggc tcacaaagt aaagaacagc cggcggatgc tgtcaaataa gccacaggac 720
ttccagatcc gcgtccgagt gattgagggc cgacagttaa gtggtaaaca cataaggcct 780
gtggtcaaag ttcacgtctg tggccagaca caccgaacaa gaatcaagag aggaacaac 840
cctttttttg atgagttgtt tttctacaat gtcaacatga ccccttctga attgatggat 900
gagatcatca gcatccgggt ttataattct cactctctgc gggcagattg tctgatggg 960
gaatttaaga ttgatgttgg atttgtttat gatgaacctg gccatgctgt catgagaaag 1020
tggtctcttc tcaatgacct ggaagatacc agttcaggtt cttaaaggta tatgaaagt 1080
agcatgtttg tcttgggaac cggagatgag cctcctcctg agagacgaga tctgtataat 1140
gacagtgatg atgtggagag taatttggtt cctcctgctg gcattgccct ccggtgggtg 1200
accttcttgc tgaataatcta ccgagctgag gacatcccc agatggatga tgccttctca 1260
cagacagtaa aggaatatt tggaggcaat gcagataaga aaaatctcgt ggatcctttt 1320
gtagaagttt cctttgctgg aaaaaagggt tgtacaaaca taattgagaa aaatgcaaac 1380
ccagagtgga atcaggtcgt caatcttcag atcaagtttc cttcagtggt tgaaaaata 1440
aaactaaca tatatgactg ggaccgtctt actaaaaatg atgtagttgg aacaacatat 1500
ctacacctct ctaaaattgc tgcctctggt ggggaagtgg aagatttctc atcttcggga 1560
actggggctg catcatatac agtaaacaca ggagaaacag aggtaggctt tgttccaacg 1620
tttgaccctt gttacctgaa tctttatgga agcccagag agtacacggg attcccagac 1680
ccctatgatg agctgaatac tggaaagggg gaaggagttg cctacagagg caggatcttg 1740
gttgaaattg ccacttttct tgagaagaca ccaccagata aaaagcttga gccatttca 1800
aatgatgacc tgctggttgt tgagaaatac cagcgaaggc ggaagtacag cctgtctgcc 1860
gtgtttcatt cagccaccat gttgcaagat gttggtgagg ccattcagtt tgaagtacag 1920
attgggaact atggcaaca gtttgacacc acctgtaagc ctttggcatc aacaactcag 1980
tacagcgtg atgtatttga tggcaactac tattattact tgccttgggc ccacaccaag 2040
ccagttgtta cctgacttc atactgggag gatattagtc atcgctgga tgcggtgaac 2100
actctcctag ctatggcaga acggctgcaa acaaatatag aagctctaaa atcagggata 2160
caaggtaaaa ttctgcaaa ccagctggct gaattgtggc tgaagctgat agatgaagt 2220
atagaagaca cgagatacac gttgcctctc acagaaggaa aagccaacgt cacagttctc 2280
gatactcaga tccgaaagct gcggtccagg tctctctccc aaatacatga ggcggtctg 2340
aggatgaggt cggaaagcac agatgtgaag tccacactgg cagaaattga ggactggctt 2400
gataaattaa tgcagctgac tgaagagcca cagaacagca tgcctgacat catcatctg 2460
atgatccggg gagagaagag actggcctat gcacgaattc ccgcacatca ggtcttgtac 2520
tccaccagtg gtgagaatgc atctggaaaa tactgtggga aaacccaaac catctttctg 2580
aagtatccac aggagaaaaa caacgggcca aaggtgcctg tggagttgcg agtgaacatc 2640
tggttaggct taagtgtctg ggagaagaag tttaacagct tcgcagaagg aactttcacc 2700
gtctttgctg aaatgtatga aaatcaagct ctcatgtttg gaaaatggg tacttctgga 2760
ttagtaggac gtcataagtt ttctgatgtc acaggaaaaa taaaactcaa gagggaaatt 2820
tttctgcctc caaaaggctg ggaatgggaa ggagagtgg tagttgatcc tgaagaagc 2880
ttgctgactg aggcagatgc aggtcacacg gagttcactg atgaagtcta tcagaacgag 2940
agccgtacc cggggggcga ctggaagccg gccgaggaca cctacacgga tgcgaacggc 3000
gataaagcag catcaccacg cgagttgact tgtcctccag gttgggaatg ggaagatgat 3060
gcatggtctt atgacataaa tcgagtggtg gatgagaaag gctgggaata tggaaatcac 3120

```

```

attcctcctg atcataagcc caaatcctgg gttgcagcag agaaaatgta ccacactcat 3180
agacggcgaa ggctgggtccg aaaacgcaag aaagatttaa cacagactgc ttcaagcacc 3240
gcaagggcca tggaggaatt gcaagaccaa gagggctggg aatatgcttc tctaattggc 3300
tggaaatttc actggaaaca acgtagttca gataccttcc gccgcagacg ctggaggaga 3360
aaaatggctc cttcagaaac acatggtgca gctgccatct ttaaacttga aggtgccctt 3420
ggggcagaca ctaccgaaga tggggatgag aagagcctgg agaaacagaa gcacagtgcc 3480
accactgtgt tcggagcaaa caccoccatt gtttcctgca attttgacag agtctacatc 3540
taccatctgc gctgctatgt ctatcaagcc agaaacctct tggctttaga taaggatagc 3600
ttttcagatc catatgctca tatctgtttc ctccatcgga gcaaaaccac tgagatcatc 3660
cattcaaccc tgaatcccac gtgggaccaa acaattatat tcgatgaagt tgaaatctat 3720
ggggaacccc aaacagttct acagaatcca ccaaagtta tcatggaact ttttgacaat 3780
gaccaagtgg gcaaagatga attttttagga cgaagcattt tctctcctgt ggtgaaactg 3840
aactcagaaa tggacatcac acccaaactt ctctggcacc cagtaatgaa tggagacaaa 3900
gctgcgggg aacttcttgt aactgcagag ctgattctga ggggcaagga tggctccaac 3960
cttcccattc ttcccctca aagggcgcca aatctataca tggctcccca ggggatcagg 4020
cctgtggtcc agctcactgc cattgagatt ctagtctggg gcttaagaaa tatgaaaaac 4080
ttccagatgg cttctatcac atccccagt cttgttgtgg agtgtggagg agaaagggtg 4140
gaatcggtgg tgatcaaaaa ccttaagaag acacccaact ttccaagttc tgttctcttc 4200
atgaaagtgt tcttgcccaa ggaggaattg tacatgcccc cactggtgat caaggtcatc 4260
gaccacagcg agtttgggcg gaagcctgtc gtccggcagt gcaccatcga gcgcctggac 4320
cgcttcgctg gtgacctta tgcagggaaa gaggacatcg tcccacagct caaagcctcc 4380
cttctgtctg cccaccatg ccgggacatc gttatcgaaa tggaaagacac caaaccata 4440
ctggcttcta agctgacaga aaaggaggaa gaaatcgtgg actgggtggag taaattttat 4500
gcttctcag ggaacatga aaaatgcgga cagtatatcc agaaaggcta ttccaagctc 4560
aagatatata attgtgaact agaaaatgta gcagaatttg agggcctgac agacttctca 4620
gatacgttca agttgtaccg aggcaagtcg gatgaaaatg aagatccttc tgtggttga 4680
gagttaaagg gctcctttcg gatctaccct ctgccggatg accccagcgt gccagcccc 4740
cccagacagt ttcgggaatt acctgacagc gtcccacagg aatgcaoggt taggatttac 4800
attgttcgag gcttagagct ccagccccag gacaacaatg gcctgtgtga cccttacata 4860
aaaataacac tgggcaaaaa agtcattgaa gaccgagatc actacattcc caacactctc 4920
aaccagctct ttggcaggat gtacgaactg agctgctact tacctcaaga aaaagacctg 4980
aaaatttctg tctatgatta tgacaccttt acccgggatg aaaaagtagg agaaacaatt 5040
attgatctgg aaaaccgatt cctttcccg c tttgggtccc actgcggcat accagaggag 5100
tactgtgttt ctggagtcaa tacctggcga gatcaactga gaccaacaca gctgcttcaa 5160
aatgtcgcca gattcaaagg cttcccacaa cccactcttt ccgaagatgg gactagaatc 5220
agatatggag gacgagacta cagcttggat gaatttgaag ccaacaaaat cctgcaccac 5280
cacctcgggg cccctgaaga gcggttgcct ttccacatcc tcaggactca ggggctggtc 5340
cctgagcacg tggaaacaag gactttgcac agcaccttcc agcccaacat ttcccaggga 5400
aaacttcaga tgtgggtgga tgttttcccc aagagtttgg ggccaccagg ccctcctttc 5460
aacatcacac cccggaagc caagaaatag tacctgcgtg tgatcatctg gaacaccaag 5520
gacgttatct tggacgagaa aagcatcaca ggagaggaaa tgagtacat ctacgtcaaa 5580
ggctggttc cctggcaatga agaaaacaa agtaaaacag atgtocatta cagatctttg 5640
gatggtgaa ggaattttaa ctggcgattt gttttcccg ttgactacct tccagccgaa 5700
caactctgta tcgttgcgaa aaaagagcat ttctggagta ttgacaaaac ggaatttcga 5760
atcccacca ggctgatcat tcagatatgg gacaatgaca agttttctct ggatgactac 5820
ttgggtttcc tagaacttga cttgcgtcac acgatcattc ctgcaaaatc accagagaaa 5880
tgcaggttgg acatgattcc ggacctcaaa gccatgaacc cccttaaagc caagacagcc 5940
tccctctttg agcagaagtc catgaaagga tgggtggccat gctacgcaga gaaagatggc 6000
gcccgcgtaa tggctgggaa agtggagatg acattggaaa tcctcaacga gaaggaggcc 6060
gacgagaggc cagccgggaa ggggcgggac gaacccaaca tgaaccccaa gctggactta 6120
ccaaatcgac cagaaacctc cttcctctgg ttaccaacc catgcaagac catgaagttc 6180
atcgtgtggc gccgctttaa gtgggtcatc atcggcttgc tgttcctgct tatcctgctg 6240
ctcttcgtgg ccgtgctcct ctactctttg ccgaactatt tgtcaatgaa gattgtaaag 6300
ccaaatgtgt aacaaaggca aaggcttcat ttccagagtc atccagcaat gagagaatcc 6360
tgcctctgta gaccaacatc cagtgtgatt ttgtgtctga gaccacaccc cagtagcagg 6420
ttacgccatg tcaccgagcc ccattgattc ccagagggtc ttagtccctg aaagtcaggc 6480
caacaagcaa cgtttgcac atgttatctc ttaagtatta aaagttttat tttctaaagt 6540
ttaaatcatg tttttcaaaa tatttttcaa ggtggctggt tccattttaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttgaaat tgctaaatag aattcaaaaa 6660
tctctgcatc ctgaggtgat atacttcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tagaatagtt agaacaattc ttatttatgc ccacaacct tgctatattt 6780

```

```

tgatatggatg tcataaaaagt ctatTTtaacc tctgtaatga aactaaataa aaatgtttca 6840
ccttttaaaaa aaaaaaagggg gggccgaacc caatcgcta ttggaggggt 6900
atccaaataa tggccgcttt acannnn 6927

```

<210> 930

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 930

```

cgacccacgc gtccgatcct cccttcactg ggcaagagct tctctcccag ggcggtgcga 60
cccgagctc cagcgcccga gtctccactt cgtttgctga aacttgcttt ctaccagcta 120
agaaccatgc tgcgagtgat tgtggaatct gccagcaata tccctaaaac gaaatttggc 180
aagccgatc ctattgtttc tgtcattttt aaggatgaga aaaagaaaac aaagaaagtt 240
gataatgaat tgaaccctgt ctggaatgag attttggagt ttgacttgag ggtataacca 300
ctggactttt catcttccct tgggattatt gtgaaagatt ttgagacaat tggacaaaat 360
aaattaattg gcacggcgac tgtagccctg aaggacctga ctggtgacca gagcagatcc 420
ctgccgtaca agctgatctc cctgctaaat gaaaaagggc aagatactgg gccaccatt 480
gacttggtga tcggctatga tccgccttct gctccacatc caaatgacct gagcggggcc 540
agcgtgccag gcatgggagg agatggggaa gaagatgaag gtgatgaaga caggttggac 600
aatgcagtca ggggccctgg gcccaagggg ccagttggga cgggtgtcga agctcagctt 660
gctcggaggc tcaccaaagt aaagaacagc cggcggatgc tgtcaaataa gccacaggac 720
ttccagatcc gcgtccgagt gattgagggc cgacagttaa gtggttaaca cataaggcct 780
gtggtcaaa gttcaactct tggccagaca accgaacaa gaatcaagag aggaacaacc 840
cctttttttg atgagttgtt tttctacaat gtcaacatga ccccttctga attgatggat 900
gagatcatca gcatccgggt ttataattct cactctctgc gggcagattg tctgatgggg 960
gaatttaaga ttgatgttgg atttgtttat gatgaacctg gccatgctgt catgagaaag 1020
tggtctcttc tcaatgacct ggaagatacc agttcagggt cttaaagggtt tatgaaagtc 1080
agcatgtttg tcctgggaac cggagatgag cctcctcctg agagacgaga tcgtgataat 1140
gacagtgatg atgtggagag taatttgtta ctccctgctg gcattgccct ccggtgggtg 1200
acctctctg cctgacctga cagagctgag gacatcccc agatggatga tgccttctca 1260
cagacagtaa aggaatatatt tggaggcaat gcagataaga aaaatctcgt ggatcccttt 1320
gtagaagttt cctttgctgg aaaaaagggt tgtacaaaca taattgagaa aaatgcaaac 1380
ccagagtggg atcaggtcgt caatcttcag atcaagtttc cttcagtggt tgaaaaata 1440
aaactaaca tatatgactg ggaccgtctt actaaaaatg atgtagttgg aacaacatat 1500
ctacacctct ctaaaattgc tgcctctggt ggggaagtgg aagatttctc atcttcggga 1560
actggggctg catcatatac agtaaacaca ggagaaacag aggtaggctt tgttccaacg 1620
tttgacctt gttacctgaa tctttatgga agcccagag agtacacggg attcccagac 1680
ccctatgatg agctgaatac tggaaaaggg gaaggagttg cctacagagg caggatcttg 1740
gttgaattag ccacttttct tgagaagaca ccaccagata aaaagcttga gccatttca 1800
aatgatgacc tgctggttgt tgagaaatac cagcgaaggc ggaagtacag cctgtctgcc 1860
gtgtttcatt cagccaccat gttgcaagat gttggtgagg ccattcagtt tgaagtcagc 1920
attgggaact atggcaacaa gtttgacacc acctgtaagc ctttggcatc aacaactcag 1980
tacagccgtg ctgtatttga tggcaactac tattattact tgccttgggc ccacaccaag 2040
ccagttgtta cctgacttc atactgggag gatattagtc atcgctgga tgcggtgaac 2100
actctcctag ctatggcaga acggctgcaa acaaatatag aagctctaaa atcagggata 2160
caaggtaaaa ttctgcaaa ccagctggct gaattgtggc tgaagctgat agatgaagtt 2220
atagaagaca cgagatacac gttgcctctc acagaaggaa aagccaacgt cacagttctc 2280
gatactcaga tccgaaagct gcggtccagg tctctctccc aaatacatga ggcggctgtg 2340
aggatgaggt cggaagccac agatgtgaag tccacactgg cagaaattga ggactggctt 2400
gataaattaa tgcagctgac tgaagagcca cagaacagca tgcctgacat catcatctgg 2460
gatccgggg gagagaagag actggcctat gcacgaattc ccgcacatca ggtcttgcac 2520
tccaccagt gtagaagtc atctggaaaa tactgtggga aaacccaaac catctttctg 2580
aagtatccac aggagaaaaa caacgggcca aaggtgcctg tggagttgcg agtgaacatc 2640
tggttaggct taagtgtgtt ggagaagaag tttaacagct tcgcagaagg aactttcacc 2700
gtctttgctg aaatgtatga aaatcaagct ctcattgttg gaaaatgggg tacttctgga 2760

```

ttagtaggac	gtcataagtt	ttctgatgtc	acaggaaaaa	taaaactcaa	gagggaattt	2820
tttctgcctc	caaaaggctg	ggaatgggaa	ggagagtggg	tagttgatcc	tgaaagaagc	2880
ttgctgactg	aggcagatgc	aggtcacacg	gagttcactg	atgaagtcta	tcagaacgag	2940
agccgctacc	ccgggggcca	ctggaagccg	gccgaggaca	cctacacgga	tgcaaacggc	3000
gataaagcag	catcacccag	cgagttgact	tgtcctccag	ggtgggaatg	ggaaatgat	3060
gcatggtctt	atgacataaa	togagtgggtg	gatgagaaaag	gctgggaata	tggaatcacc	3120
attcctcctg	atcataagcc	caaatcctgg	gttgcagcag	agaaaatgta	ccacactcat	3180
agacggcgaa	ggctggtccg	aaaacgcaag	aaagatttaa	cacagactgc	ttcaagcacc	3240
gcaagggcca	tggaggaatt	gcaagaccaa	gagggctggg	aatatgcttc	tctaattggc	3300
tggaaatttc	actggaaaca	acgtagtcca	gataccttcc	gccgcagacg	ctggaggaga	3360
aaaatggctc	cttcagaaac	acatggtgca	gctgccatct	ttaaacttga	aggtgccctt	3420
ggggcgagaca	ctaccgaaga	tggggatgag	aagagcctgg	agaaacagaa	gcacagtgcc	3480
accactgtgt	tccggagcaaa	cacccccatt	gtttcctgca	attttgacag	agtctacatc	3540
taccatctgc	gctgtatgt	ctatcaagcc	agaaacctct	tggctttaga	taaggatagc	3600
ttttcagatc	catatgctca	tatctgtttc	ctocatcgga	gcaaaaccac	tgagatcatc	3660
cattcaaccc	tgaatcccac	gtgggaccaaa	acaattatat	tcgatgaagt	tgaatctat	3720
ggggaacccc	aaacagttct	acagaatcca	cccaaagtta	tcatggaact	ttttgacaat	3780
gaccaagtgg	gcaaagatga	attttttagga	cgaagcattt	tctctcctgt	ggtgaaactg	3840
aactcagaaa	tggacatcac	acccaaactt	ctctggcacc	cagtaatgaa	tggagacaaa	3900
gcctgcgggg	atgttcttgt	aactgcagag	ctgattctga	ggggcaagga	tggctccaac	3960
cttcccattc	ttccccctca	aagggcgcca	aatctataca	tggctcccca	ggggatcagg	4020
cctgtgtgtcc	agctcactgc	cattgagatt	ctagcttggg	gcttaagaaa	tatgaaaaac	4080
ttccagatgg	cttctatcac	atccccagt	cttggtgtgg	agtgtggagg	agaaaggggtg	4140
gaatcggtgg	tgatcaaaaa	ccttaagaag	acacccaact	ttccaagttc	tgttctcttc	4200
atgaaagtgt	tcttgcccaa	ggaggaattg	tacatgcccc	cactggtgat	caaggtcatc	4260
gaccacaggc	agtttgggcg	gaagcctgtc	gtcggccagt	gcaccatcga	gcgcctggac	4320
cgctttcgct	gtgaccctta	tgcagggaaa	gaggacatcg	tcccacagct	caaagcctcc	4380
cttctgtctg	ccccaccatg	ccgggacatc	gttatcgaaa	tgggaagacac	caaaccatta	4440
ctggcttcta	agtgacaga	aaaggaggaa	gaaatcgtgg	actggtggag	taaattttat	4500
gcttctcag	gggaacatga	aaaatgcgga	cagtatatct	agaaaggcta	ttccaagctc	4560
aagatatata	attgtgaact	agaaaatgta	gcagaatttg	agggcctgac	agacttctca	4620
gatacgttca	agttgtaccg	aggcaagtcg	gatgaaaatg	aagatccttc	tgtggttggg	4680
gagtttaagg	gctcctttcg	gatctaccct	ctgcgggatg	accccagcgt	gccagcccct	4740
cccagacagt	ttcgggaatt	acctgacagc	gtcccacagg	aatgcacggg	taggatttac	4800
attgttcgag	gcttagagct	ccagccccag	gacaacaatg	gcctgtgtga	cccttacata	4860
aaaataacac	tgggcaaaaa	agtcattgaa	gaccgagatc	actacattcc	caacactctc	4920
aaccagctct	ttggcaggat	gtacgaactg	agctgctact	tacctcaaga	aaaagacctg	4980
aaaatttctg	tctatgatta	tgacaccttt	acccgggatg	aaaaagtagg	agaaacaatt	5040
attgatctgg	aaaaccgatt	cctttcccgc	tttgggtccc	actgcggcat	accagaggag	5100
tactgtgttt	ctggagtcaa	tacctggcga	gatcaactga	gaccaacaca	gctgcttcaa	5160
aatgtcgcca	gattcaaagg	cttcccacaa	cccatccttt	ccgaagatgg	gagtagaatc	5220
agatattggg	gacgagacta	cagcttggtg	gaatttgaag	ccaacaaaat	cctgcaccag	5280
cacctcgggg	cccctgaaga	gcggcttgct	cttcacatcc	tcaggactca	ggggctggtc	5340
cctgagcacg	tggaaacaag	gactttgcac	agcaccttcc	agcccaacat	ttcccaggga	5400
aaacttcaga	tgtgggtgga	tgttttcccc	aagagtttgg	ggccaccagg	ccctcctttc	5460
aacatcacac	cccggaaaagc	caagaaatac	tacctgcgtg	tgatcatctg	gaacaccaag	5520
gacgttatct	tggacgagaa	aagcatcaca	ggagaggaaa	tgagtgcacat	ctacgtcaaa	5580
ggctggattc	ctggcaatga	agaaaacaaa	cagaaaacag	atgtccatta	cagatctttg	5640
gatggtgaag	ggaattttta	ctggcgattt	gttttcccgt	ttgactacct	tccagccgaa	5700
caactctgta	tcgttgcgaa	aaaagagcat	ttctggagta	ttgaccaaac	ggaatttcga	5760
atcccaccca	ggctgatcat	tcagatatgg	gacaatgaca	agttttctct	ggatgactac	5820
ttgggtttcc	tagaacttga	cttgcgtcac	acgatcattc	ctgcaaaatc	accagagaaa	5880
tgcaggttgg	acatgattcc	ggacctcaaa	gccatgaacc	cccttaaagc	caagacagcc	5940
tccctctttg	agcagaaagtc	catgaaagga	tgggtggccat	gctacgcaga	gaaagatggc	6000
gccccgctaa	tggctgggaa	agtggagatg	acattggaaa	tcctcaacga	gaaggaggcc	6060
gacgagaggc	cagccgggaa	ggggcgggac	gaacccaaca	tgaaccccaa	gctggactta	6120
ccaaatcgac	cagaaacctc	cttctcttgg	ttcaccaacc	catgcaagac	catgaagttc	6180
atcggtgggc	ccgcctttaa	gtgggtcatc	atcggcttgc	tgttctgtct	tatcctgtgt	6240
ctcttcgtgg	ccgtgtcctc	ctactctttg	ccgaactatt	tgtcaatgaa	gattgtaaag	6300
ccaaatgtgt	aacaaaggca	aaggcttcat	ttccagagtc	atccagcaat	gagagaatcc	6360
tgcctctgta	gaccaacatc	cagtgtgatt	ttgtgtctga	gaccacaccc	cagtagcagg	6420


```

ttacgccatg tcaccgagcc ccattgattc ccagagggtc ttagtcctgg aaagtcaggc 6480
caacaagcaa cgtttgcatc atgttatctc ttaagtatta aaagttttat tttctaaagt 6540
ttaaatacatg tttttcaaaa tatttttcaa ggtggctggg tccattttaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttggaat tgctaaatag aattcaaaaa 6660
tctctgcatc ctgaggtgat atacttcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tagaatagtt agaacaattc ttatttatgc ccacaacct tgctatattt 6780
tgtatggatg tcataaaaagt ctatttaacc tctgtaatga aactaaataa aaatgtttca 6840
cctttaaaaa aaaaaaaaaa aaaaaagggg gggccgaacc caatcgcta ttggaggggt 6900
atccaaataa tggccgcttt acannnn 6927

```

<210> 931

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 931

```

cgacccacgc gtccgatcct cccttcactg ggcacgagct tctctcccag ggcggtgcga 60
cccgagctc cagcgcccga gtctccactt cgtttgctga aacttgcttt ctaccagcta 120
agaaccatgc tgcgagtgat tgtggaatct gccagcaata tccctaaaac gaaatttggc 180
aagccggatc ctattgtttc tgtcattttt aaggatgaga aaaagaaaac aaagaaagt 240
gataatgaat tgaaccctgt ctggaatgag attttgaggt ttgacttgag ggtataacca 300
ctggactttt catcttccct tgggattatt gtgaaagatt ttgagacaat tggacaaaat 360
aaattaattg gcacggcgac tgtagccctg aaggacctga ctggtgacca gagcagatcc 420
ctgccgtaca agctgatctc cctgctaaat gaaaaagggc aagatactgg ggccaccatt 480
gacttggtga tgggctatga tccgccttct gctccacatc caaatgacct gagcggggcc 540
agcgtgccag gcatgggagg agatggggaa gaagatgaag gtgatgaaga caggttgagc 600
aatgcagtca ggggccctgg gcccaagggg ccagttggga cgggtgcgga agctcagctt 660
gctcggaggc tcaccaaagt aaagaacagc cggcggatgc tgtcaaataa gccacaggac 720
ttccagatcc gcgtccgagt gattgagggc cgacagttaa gtggttaaca cataaggcct 780
gtggtcaaaag ttcacgtctg tggccagaca caccgaacaa gaatcaagag aggaacaac 840
cctttttttg atgagttggt tttctacaat cctctctgc gggcagattg tctgatggg 900
gagatcatca gcatccgggt ttataattct cactctctgc gggcagattg tctgatggg 960
gaatttaaga ttgatgttg atttgtttat gatgaacctg gccatgctgt catgagaaag 1020
tggcttcttc tcaatgacct ggaagatacc agttcagggt cttaaagggt tatgaaagt 1080
agcatgtttg tcctgggaac cggagatgag cctcctcctg agagacgaga tcgtgataat 1140
gacagtgatg atgtggagag taatttggtt ctccctgctg gcattgccct ccggtgggtg 1200
acctcttgc tgaaaatcta ccgagctgag gacatcccc agatggatga tgccttctca 1260
cagataagaa aggaatatt tggaggcaat ccagataaga aaaatctcgt ggatcctttt 1320
gtagaagttt cctttgctgg aaaaaagggt tgtacaaaca taattgagaa aaatgcaaac 1380
ccagagtgga atcaggtcgt caatcttcag atcaagtttc cttcagtggt tgaaaaata 1440
aaactaaca tatatgactg ggaccgtctt actaaaaatg atgtagttg aacaacatat 1500
ctacacctct ctaaaattgc tgcctctggt ggggaagtgg aagatttctc atcttoggga 1560
actggggctg catcatatac agtaaacaca ggagaaacag aggtaggctt tgttccaacg 1620
tttggacctt gttacctgaa tctttatgga agccccagag agtacacggg attcccagac 1680
ccctatgatg agctgaatac tggaaagggg gaaggagttg cctacagagg caggatcttg 1740
gttgaattag ccacttttct tgagaagaca ccaccagata aaaagcttga gccatttca 1800
aatgatgacc tgctggttgt tgagaaatac cagcgaaggc ggaagtacag cctgtctgcc 1860
gtgtttcatt cagccaccat gttgcaagat gttggtgagg ccattcagtt tgaagtacg 1920
attgggaact atggcaacaa gtttgacacc acctgtaagc ctttggcatc aacaactcag 1980
tacagccgtg ctgtatttga tggcaactac tattattact tgccttgggc ccacaccaag 2040
ccagttgta cctgacttc atactgggag gatattagtc atcgctgga tgcggtgaac 2100
actctctag ctatggcaga acgctgcaa aagaatatag aagctctaaa atcagggata 2160
caaggtaaaa ttctgcaaa ccagctggct gaatttggtc tgaagctgat agatgaagt 2220
atagaagaca cgagatacac gttgcctctc acagaaggaa aagccaacgt cacagttctc 2280
gatactcaga tccgaaagct gcggtccagg tctctctccc aaatacatga ggcggtctg 2340
aggatgaggt cggaagccac agatgtgaag tccacactgg cagaaattga ggactggctt 2400

```


gataaattaa	tgcagctgac	tgaagagcca	cagaacagca	tgccctgacat	catcatctgg	2460
atgatccggg	gagagaagag	actggcctat	gcacgaattc	ccgcacatca	ggtcttgtag	2520
tccaccagt	gtgagaatgc	atctggaaaa	tactgtggga	aaacccaaac	catctttctg	2580
aagtatccac	aggagaaaaa	caacgggcca	aaggtgcctg	tgaggttgcg	agtgaacatc	2640
tggttaggct	taagtgtgt	ggagaagaag	tttaacagct	tcgcagaagg	aactttcacc	2700
gtctttgtg	aatgtatga	aatcaagct	ctcatgtttg	gaaaatgggg	tacttctgga	2760
ttagtaggac	gtcataagtt	ttctgatgtc	acaggaaaaa	taaaactcaa	gaggggaattt	2820
tttctgcctc	caaaaggctg	ggaatgggaa	ggagagtggg	tagttgatcc	tgaaagaagc	2880
ttgctgactg	aggcagatgc	aggtcacacg	gagttcactg	atgaagtcta	tcagaacgag	2940
agccgctacc	ccgggggcca	ctggaagccg	gccgaggaca	cctacacgga	tgcgacggc	3000
gataaagcag	catcaccacg	cgagttgact	tgctcctccag	gttggggaatg	ggaagatgat	3060
gcatggtctt	atgacataaa	tcgagtgggtg	gatgagaaaag	gctgggaata	tggaatcacc	3120
attcctcctg	atcataagcc	caaatcctgg	gttgagcagc	agaaaatgta	ccacactcat	3180
agacggcgaa	ggctgggtccg	aaaacgcaag	aaagatttaa	cacagactgc	ttcaagcacc	3240
gcaagggccca	tggaaggaatt	gcaagaccaa	gagggtggg	aatatgcttc	tctaattggc	3300
tggaattttc	actggaaaca	acgtagtcca	gataccttcc	gccgcagacg	ctggaggaga	3360
aaaatggctc	cttcagaaac	acatgggtgca	gctgccatct	ttaaacttga	aggtgccctt	3420
ggggcagaca	ctaccgaaga	tggggatgag	aagagcctgg	agaaacagaa	gcacagtgc	3480
accactgtgt	tcggagcaaa	cacccccatt	gtttcctgca	attttgacag	agtctacatc	3540
taccatctgc	gctgctatgt	ctatcaagcc	agaaacctct	tggttttaga	taaggatagc	3600
ttttcagatc	catatgtcca	tatctgtttc	ctccatcgga	gcaaaaccac	tgagatcatc	3660
cattcaagccc	gaaatccac	tggggaccaa	acaattatat	tcgatgaagt	tgaaatctat	3720
ggggaacccc	aaacagttct	acagaatcca	cccaaagtta	tcagtgaact	ttttgacaat	3780
gaccaagtgg	gcaaagatga	atTTTTtagga	cgaagcattt	tctctcctgt	ggtgaaactg	3840
aactcagaaa	tggaatcac	acccaaactt	ctctggcacc	cagtaatgaa	tggaagacaa	3900
gcctgcgggg	atgttcttgt	aactgcagag	ctgattctga	ggggcaagga	tggtccaac	3960
cttcccattc	ttccccctca	aaggggcgcca	aatctataca	tggtccccc	ggggatcagg	4020
cctgtggctc	agctcactgc	cattgagatt	ctagcttggg	gcttaagaaa	tatgaaaaac	4080
ttctcagatg	cttctatcac	atccccagt	ctgttgtgg	agtgtggagg	agaaagggtg	4140
gaatcggtgg	tgatcaaaaa	ccttaagaag	acacccaact	ttccaagttc	tggtctcttc	4200
atgaaagtgt	tcttgcccaa	ggaggaattg	tacatgcccc	cactggtgat	caaggctatc	4260
gaccacaggc	agtttgggcg	gaagcctgtc	gtcggccagt	gcaccatcga	gcgcctggac	4320
cgctttcgct	gtgaccctta	tgcaaggaaa	gaggacatcg	tcccacagct	caaagcctcc	4380
cttctgtctg	ccccaccatg	ccgggacatc	gttatcgaaa	tggaagacac	caaaccatta	4440
ctggcttcta	agctgacaga	aaaggaggaa	gaaatcgtag	actggtggag	taaattttat	4500
gcttcctcag	gggaacatga	aaaatgcgga	cagtatatcc	agaaaggcta	ttccaagctc	4560
aagatatata	attgtgaact	agaaaaatga	gcagaatttg	agggcctgac	agacttctca	4620
gatacgttca	agttgtaccg	aggcaagtgc	gatgaaaatg	aagatccttc	tgtggttgga	4680
gagtttaaag	gctcctttcg	gatctaccct	ctgccggatg	acccacagct	gccagcccct	4740
cccagacagt	ttcggaatt	acctgacagc	gtcccacagg	aatgcacggt	taggattttac	4800
attgttcgag	gcttagagct	ccagccccag	gacaacaatg	gcctgtgtga	cccttacata	4860
aaaataaac	tgggcaaaaa	agtcattgaa	gaccgagatc	actacattcc	caacactctc	4920
aaccagctct	ttggcagat	gtacgaactg	agctgctact	tacctcaaga	aaaagacctg	4980
aaaatttctg	tctatgatta	tgacaccttt	acccgggatg	aaaaagtagg	agaaacaatt	5040
attgatctgg	aaaaccgatt	cctttcccg	tttgggtccc	actgcggcat	accagaggag	5100
tactgtgttt	ctggagtcaa	tacctggcga	gatcaactga	gaccaacaca	gctgcttcaa	5160
aatgtcgcca	gattcaaagg	cttcccacaa	cccatccttt	ccgaagatgg	gagtagaatc	5220
agatatggag	gacgagacta	cagcttggtg	gaatttgaag	ccaacaaaat	cctgcaccag	5280
cacctcgggg	cccctgaaga	gcggcttgct	cttcacatcc	tcaggactca	ggggctggtc	5340
cctgagcacg	tggaacaag	gactttgcac	agcaccttcc	agcccaacat	ttcccaggga	5400
aaacttcaga	tgtgggtgga	tgttttcccc	aagagtttgg	ggccaccagg	ccctcctttc	5460
aacatcacac	cccgaaagc	caagaaatac	tacctgcgtg	tgatcatctg	gaacaccaag	5520
gacgttatct	tggaagagaa	aagcatcaca	ggagaggaaa	tgagtacat	ctacgtcaaa	5580
ggctggattc	ctggcaatga	agaaaacaaa	cagaaaacag	atgtccatta	cagatctttg	5640
gatggtgaag	ggaattttaa	ctggcgattt	gttttcccgt	ttgactacct	tcagaccgaa	5700
caactctgta	tcgttgcgaa	aaaagagcat	ttctggagta	ttgaccaaac	ggaatttcga	5760
atcccacca	ggctgatcat	tcagatatgg	gacaaatgac	agttttctct	ggatgactac	5820
ttgggtttcc	tgaacttga	cttgctcac	acgatcattc	ctgcaaaatc	accagagaaa	5880
tgcaagttgg	acatgattcc	ggacctcaaa	gccatgaacc	cccttaaagc	caagacagcc	5940
tccctctttg	agcagaagtc	catgaaagga	tggtggccat	gctacgcaga	gaaagatggc	6000
gcccgcgtaa	tggtgggaa	agtggagatg	acattggaaa	tcctcaacga	gaaggaggcc	6060

```

gacgagagggc cagccgggaa ggggcggggac gaacccaaca tgaaccccaa gctggactta 6120
ccaaatcgac cagaaacctc cttcctctgg ttcaccaacc catgcaagac catgaagtcc 6180
atcggtgtggc gccgctttaa gtgggtcatc atcggttgct tggtcctgct tatcctgctg 6240
ctcttcgtgg ccgtgtcctt ctactctttg ccgaactatt tgtcaatgaa gattgtaaag 6300
ccaaatgtgt aacaaaggca aaggcttcat ttccagagtc atccagcaat gagagaatcc 6360
tgcctctgta gaccaacatc cagtgtgatt ttgtgtctga gaccacacc cagtagcagg 6420
ttacgccaatg tcaccgagcc ccattgattc ccagagggtc ttagtcctgg aaagtcaggc 6480
caacaagcaa cgtttgcatc atgttatctc ttaagtatta aaagttttat tttctaaagt 6540
ttaaatacatg tttttcaaaa ttttttcaa ggtggctggt tccattttaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttgaaat tgctaaatag aattcaaaaa 6660
tctctgcatc ctgaggtgat atacttcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tagaatagtt agaacaattc ttatttatgc ccacaacat tgctatatatt 6780
tgtatggatg tcataaaagt ctatttaacc tctgtaatga aactaaataa aaatgtttca 6840
cctttaaaaa aaaaaaaa aaaaaaggg gggccgaacc caatgccta ttggaggggt 6900
atccaaataa tggccgcttt acannnn 6927

```

<210> 932

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 932

```

cgaccacgc gtccgatcct cccttactg ggcacgagct tctctccag ggcggtgcca 60
cccggagctc cagcgcccga gtctccactt cgtttgctga aacttgcttt ctaccagcta 120
agaacctatg tgcgagtgat tgtggaatct gccagcaata tccctaaaac gaaatttggc 180
aagccgcatc ctattgtttc tgtcattttt aaggatgaga aaaagaaaac aaagaaagtt 240
gataatgaat tgaacctgt ctggaatgag attttgaggt ttgacttgag ggtatacca 300
ctggactttt catcttccct tgggattatt gtgaaagatt ttgagacaat tggacaaaat 360
aaattaattg gcacggcgac tgtagccctg aaggacctga ctggtgacca gagcagatcc 420
tgccgtatac agctgatctc cctgctaaat gaaaagggc aagatactgg ggccaccatt 480
gacttggtga tcggctatga tccgccttct gctccacatc caaatgacct gagcggggcc 540
agcgtgccag gcatgggagg agatggggaa gaagatgaag gtgatgaaga caggttggac 600
aatgcagtca ggggccctgg gcccaagggg ccagttggga cggtgtcgga agctcagctt 660
gctcggaggc tcaccaaagt aaagaacagc cggcggatgc tgtcaaataa gccacaggac 720
ttccagatcc gcgtccgagt gattgagggc cgacagttaa gtggttaaca cataaggcct 780
gtggtcaaaag ttacgctctg tggccagaca caccgaacaa gaatcaagag aggaacaac 840
ccttttttgg atgagttgtt tttctacaat gtcaacatga ccccttctga attgatgat 900
gagatcatca gcatccgggt ttataattct cactctctgc gggcagattg tctgatggg 960
gaatttaaga ttgatgttg atttgtttat gatgaacctg gccatgctgt catgagaaag 1020
tggcttcttc tcaatgacct ggaagatacc agttcaggtt cttaaagggt tatgaaagtc 1080
agcatgtttg tccgtgggaa cggagatgag cctcctcctg agagacgaga tcgtgataat 1140
gacagtgatg atgtggagag taatttggtt cctcctgctg gcattgccct ccggtgggtg 1200
accttcttgc tgaatatcta ccgagctgag gacatcccc agatggatga tgccttctca 1260
cagacagtaa aggaaatatt tggaggcaat gcagataaga aaaatctcgt ggatcctttt 1320
gtagaagttt cctttgctgg aaaaaagggt tgtacaaaca taattgagaa aaatgcaaac 1380
ccagagtgga atcaggtcgt caatcttcag atcaagtttc cttcagtggt tgaaaaata 1440
aaactaaca tatatgactg ggaccgtctt actaaaaatg atgtagttg aacaacatat 1500
ctacacctct ctaaaattgc tgctctggt ggggaagtgg aagatttctc atcttcggga 1560
actggggctg catcatatac agtaaacaca ggagaaacag aggtaggctt tgttccaacg 1620
tttgaccctt gttacctgaa tctttatgga agccccagag agtacacggg attcccagac 1680
ccctatgatg agctgaatac tggaaagggt gaaggagtg cctacagagg caggatcttg 1740
gttgaaattg ccacttttct tgagaagaca ccaccagata aaaagcttga gccatttca 1800
aatgatgacc tgctggttgt tgagaaatac cagcgaaggc ggaagtacag cctgtctgcc 1860
gtgtttcatt cagccaccat gttgcaagat gttggtgagg ccattcagtt tgaagtcagc 1920
attgggaact atggcaacaa gtttgacacc acctgtaagc ctttggcatc aacaactcag 1980
tacagccgtg ctgtatttga tggcaactac tattattact tgccttgggc ccacaccaag 2040

```

ccagttgtta	ccctgacttc	atactgggag	gatattagtc	atcgccctgga	tgcggtgaac	2100
actctcctag	ctatggcaga	acggctgcaa	acaaatatag	aagctctaaa	atcagggata	2160
caaggtaaaa	ttcctgcaaa	ccagctggct	gaattgtggc	tgaagctgat	agatgaagtt	2220
atagaagaca	cgagatacac	gttgcccttc	acagaaggaa	aagccaacgt	cacagttctc	2280
gatactcaga	tccgaaagct	gcggtccagg	tctctctccc	aaatacatga	ggcggctgtg	2340
aggatgaggt	cggaaagcac	agatgtgaag	tccacactgg	cagaaattga	ggactggctt	2400
gataaattaa	tgcagctgac	tgaagagcca	cagaacagca	tgctgacat	catcatctgg	2460
atgatccggg	gagagaagag	actggcctat	gcacgaattc	ccgcacatca	ggtcttgtag	2520
tccaccagtg	gtgagaatgc	atctggaaaa	tactgtggga	aaacccaaac	catctttctg	2580
aagtatccac	aggagaaaaa	caacgggcca	aagggtgcctg	tggagttgcg	agtgaacatc	2640
tggctagggt	taagtgtgt	ggagaagaag	tttaacagct	tcgcagaagg	aactttcacc	2700
gtctttgtctg	aaatgtatga	aaatcaagct	ctcatgtttg	gaaaatgggg	tacttctgga	2760
ttagtaggac	gtcataagtt	ttctgatgtc	acaggaaaaa	taaaactcaa	gagggaattt	2820
tttctgcctc	caaaaggctg	ggaatgggaa	ggagagtggg	tagttgatcc	tgaaagaagc	2880
ttgctgactg	aggcagatgc	aggtcacacg	gagttcactg	atgaagtcta	tcagaacgag	2940
agccgctacc	ccgggggcca	ctggaagccg	gccgaggaca	cctacacgga	tgcgaacggc	3000
gataaagcag	catcaccacg	cgagttgact	tgtcctccag	gttggaatg	ggaagatgat	3060
gcatgggtctt	atgacataaa	tcgagtgggtg	gatgagaaa	gctgggaata	tggaatcacc	3120
attcctcctg	atcataagcc	caaatcctgg	gttgccagcag	agaaaatgta	ccacactcat	3180
agacggcgaa	ggctgggtccg	aaaacgcaag	aaagatttaa	cacagactgc	ttcaagcacc	3240
gcaagggcca	tggaggaatt	gcaagaccaa	gagggtcggg	aatatgcttc	tctaattggc	3300
tggaaatttc	actggaaaca	acgtagttca	gataccttcc	gccgcagacg	ctggaggaga	3360
aaaatggctc	cttcagaaac	acatggtgca	gctgccatct	ttaaacttga	aggtgccctt	3420
ggggcgagaca	ctaccgaaga	tggggatgag	aagagcctgg	agaaacagaa	gcacagtgcc	3480
accactgtgt	tcggagcaaa	cacccccatt	gtttcctgca	attttgacag	agtctacatc	3540
taccatctgc	gctgctatgt	ctatcaagcc	agaaacctct	tggctttaga	taaggatagc	3600
ttttcagatc	catatgctca	tatctgtttc	ctccatcgga	gcaaaaccac	tgagatcatc	3660
cattcaacc	tgaatccac	gtgggaccaa	acaattatat	tcgatgaagt	tgaaatctat	3720
ggggaacccc	aaacagttct	acagaatcca	cccaaagtta	tcatggaact	ttttgacaat	3780
gaccaagtgg	gcaaagatga	atTTTTtagga	cgaagcattt	tctctcctgt	ggtgaaactg	3840
aactcagaaa	tggacatcac	acccaaactt	ctctggcacc	cagtaatgaa	tggagacaaa	3900
gcctgcgggg	atgttcttgt	aactgcagag	ctgattctga	ggggcaagga	tggctccaac	3960
cttcccattc	ttccccctca	aagggcgcca	aatctataca	tggctcccca	ggggatcagg	4020
cctgtggtcc	agctcactgc	cattgagatt	ctagcttggg	gcttaagaaa	tatgaaaaac	4080
ttccagatgg	cttctatcac	atccccagt	cttgttgtgg	agtgtggagg	agaaagggtg	4140
gaatcggtgg	tgtatcaaaa	acaccaact	ttccaagttc	ttccaagttc	tggtctcttc	4200
atgaaagtgt	tcttgcccaa	ggaggaattg	tacatgcccc	cactgggtgat	caaggtcatc	4260
gaccacaggc	agtttggggc	gaagcctgtc	gtcggccagt	gcaccatcga	gcgcctggac	4320
cgttttcgct	gtgaccctta	tgcagggaaa	gaggacatcg	tcccacagct	caaagcctcc	4380
cttctgtctg	ccccaccatg	ccgggacatc	gttatcgaaa	tggaaagacac	caaaccatta	4440
ctggcttcta	agctgacaga	aaaggaggaa	gaaatcgtgg	actgggtggag	taaatTTTTat	4500
gcttctcag	gggaacatga	aaaatgcgga	cagtatatctc	agaaaggcta	ttccaagctc	4560
aagatatata	attgtgaact	agaaaatttg	gcagaatttg	agggcctgac	agacttctca	4620
gatacgttca	agttgtaccg	aggcaagtgc	gatgaaaatg	aagatccttc	tgtggttggg	4680
gagtttaagg	gctcctttcg	gatctaccct	ctgccggatg	accccagcgt	gccagcccct	4740
cccagacagt	ttcggaatt	acctgacagc	gtcccacagg	aatgcacggg	taggatttac	4800
attgttcgag	gcttagagct	ccagccccag	gacaacaatg	gcctgtgtga	cccttacata	4860
aaaataaacac	tgggcaaaaa	agtcattgaa	gaccgagatc	actacattcc	caacactctc	4920
aaccagttct	ttggcaggat	gtacgaactg	agctgctact	tacctcaaga	aaaagacctg	4980
aaaatttctg	tctatgatta	tgacaccttt	acccgggatg	aaaaagtagg	agaaacaatt	5040
attgatctgg	aaaaccgatt	cttttccgcg	tttgggtccc	actgcggcat	accagaggag	5100
tactgtgttt	ctggagtcaa	tacctggcga	gatcaactga	gaccaacaca	gctgcttcaa	5160
aatgtcgcca	gattcaaagg	cttcccacaa	cccatccttt	ccgaagatgg	gagtagaatc	5220
agatatggag	gacgagacta	cagcttggtg	gaatttgaa	ccaacaaaat	cctgcaccag	5280
cacctcgggg	cccctgaaga	gcggcttgct	cttcacatcc	tcaggactca	ggggctgggc	5340
cctgagcacg	tggaaacaag	gactttgcac	agcaccttcc	agcccaacat	ttcccaggga	5400
aaacttcaga	tgtgtgtgga	tgTTTTcccc	aagagtTTtg	ggccaccagg	ccctcctttc	5460
aacatcacac	cccggaagc	caagaaatc	tacctgcgtg	tgatcatctg	gaacacaaag	5520
gacgttatct	tggacgagaa	aagcatcaca	ggagaggaaa	tgagtacat	ctacgtcaaa	5580
ggctggattc	ctggcaatga	agaaaacaaa	cagaaaacag	atgtccatta	cagatctttg	5640
gatggtgaag	ggaatttttaa	ctggcgattt	gttttcccg	ttgactacct	tccagccgaa	5700

```

caactctgta  tcgttgcgaa  aaaagagcat  ttctggagta  ttgaccaaac  ggaatttcga  5760
atcccaccca  ggctgatcat  tcagatatgg  gacaatgaca  agttttctct  ggatgactac  5820
ttgggtttcc  tagaacttga  cttgcgtcac  acgatcattc  ctgcaaaatc  accagagaaa  5880
tgcaggttgg  acatgattcc  ggacctcaaa  gccatgaacc  cccttaaagc  caagacagcc  5940
tccctctttg  agcagaagtc  catgaaagga  tggtaggcat  gctacgcaga  gaaagatggc  6000
gcccgcgtaa  tggctgggaa  agtggagatg  acattggaaa  tcctcaacga  gaaggaggcc  6060
gacgagaggc  cagccgggaa  ggggcgggac  gaaccaaca  tgaaccccaa  gctggactta  6120
ccaaatcgac  cagaaacctc  ctctctctgg  ttcaccaacc  catgcaagac  catgaagtcc  6180
atcgtgtggc  gccgctttta  gtgggtcatc  atcggcttgc  tgttctgct  tatcctgctg  6240
ctcttcgtgg  cgtgctcct  ctactctttg  ccgaactatt  tgtcaatgaa  gattgtaaag  6300
ccaaatgtgt  aacaaaggca  aaggcttcat  ttccagagtc  atccagcaat  gagagaatcc  6360
tgctctgta  gaccaacatc  cagtgtgatt  ttgtgtctga  gaccacacc  cagtgcagg  6420
ttacgccatg  tcaccgagcc  ccattgattc  ccagagggtc  ttagtcctgg  aaagtcaggc  6480
caacaagcaa  cgtttgcac  atgttatctc  ttaagtatta  aaagttttat  tttctaaagt  6540
ttaaatcatg  tttttcaaaa  tatttttcaa  ggtggctgg  tccattttaa  aatcactctt  6600
ttatatgtgt  cttcggttct  agacttcagc  ttttggaaat  tgctaaatag  aattcaaaaa  6660
tctctgcac  ctgaggatg  ataactcata  tttgtaatca  actgaaagag  ctgtgcatta  6720
taaaatcagt  tagaatagtt  agaacaattc  ttatttatgc  ccacaaccat  tgctatattt  6780
tgtatggatg  tcataaaagt  ctatttaacc  tctgtaatga  aactaaataa  aaatgtttca  6840
cctttaaaaa  aaaaaaaaaa  aaaaaagggg  gggccgaacc  caatcgcta  ttggaggggt  6900
atccaaataa  tggccgcttt  acannnn  6927

```

<210> 933

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 933

```

cgacccacgc  gtccgatcct  cccttcactg  ggcacgagct  tctctcccag  ggcggtgcga  60
cccggagctc  cagcgcccga  gtctccactt  cgtttgcgta  aacttgcttt  ctaccagcta  120
agaaccatgc  tcgagtgat  tgtggaatct  gccagcaata  tccctaaaac  gaaatttggc  180
aagccggatc  ctattgtttc  tgtcattttt  aaggatgaga  aaaagaaaaa  aaagaaagtt  240
gataatgaat  tgaaccctgt  ctggaatgag  attttggagt  ttgacttgag  gggatatacca  300
ctggactttt  catcttcct  tgggattatt  gtgaaagatt  ttgagacaat  tggacaaaat  360
aaattaattg  gcacggcgac  tgtagccctg  aaggacctga  ctggtgacca  gagcagatcc  420
ctgccgtaca  agctgatctc  cctgctaaat  gaaaaagggc  aagatactgg  ggccaccatt  480
gacttggtga  toggctatga  tccgccttct  gctccacatc  caaatgacct  gagcggggcc  540
agcgtgccag  gcatgggagg  agatggggaa  gaagatgaag  gtgatgaaga  caggttggac  600
aatgcagtca  ggggccctgg  gcccaagggg  ccagttggga  cgggtgcgga  agctcagctt  660
gctcggaggc  tcaccaaagt  aaagaacagc  cggcggatgc  tgtcaaataa  gccacaggac  720
ttccagatcc  gcgtccgagt  gattgagggc  cgacagttaa  gtggttaaca  cataaggcct  780
gtggtcaaag  ttacagtcgt  tggccagaca  caccgaacaa  gaatcaagag  aggaacaac  840
cctttttttg  atgagttgtt  tttctacaat  gtcaacatga  ccccttctga  attgatggat  900
gagatcatca  gcatccgggt  ttataattct  cactctctgc  gggcagattg  tctgatggg  960
gaatttaaga  ttgatgttgg  atttgtttat  gatgaacctg  gccatgctgt  catgagaaag  1020
tggcttcttc  tcaatgacct  ggaagatacc  agttcaggtt  ctaaagggtta  tatgaaagtc  1080
agcatgtttg  tcctgggaac  cggagatgag  cctcctcctg  agagacgaga  tcgtgataat  1140
gacagtgatg  atgtggagag  taatttggtt  ctccctgctg  gcattgccct  ccggtgggtg  1200
accttcttgc  tgaaaatcta  ccgagctgag  gacatcccc  agatggatga  tgccttctca  1260
cagacagtaa  aggaaatatt  tggaggcaat  gcagataaga  aaaatctcgt  ggatcctttt  1320
gtagaagttt  cctttgctgg  aaaaaaggtt  tgtacaaaca  taattgagaa  aaatgcaaac  1380
ccagatggga  atcaggtcgt  caatcttcag  actaaaatg  ctacagtttc  tgaaaaata  1440
aaactaaca  tatagtactg  ggaccgtctt  atcaaaaatg  atgtagttgg  aacaacatat  1500
ctacacctct  ctaaaattgc  tgcctctgg  ggggaagtgg  aagatttctc  atcttcggga  1560
actggggctg  catcatatac  agtaaacaca  ggagaaacag  aggtaggctt  tgttccaacg  1620
tttgacactt  gttacctgaa  tctttatgga  agccccagag  agtacacggg  attcccagac  1680

```

ccctatgatg	agctgaatac	tggaaagggg	gaaggagttg	cctacagagg	caggatcttg	1740
gttgaattag	ccacttttct	tgagaagaca	ccaccagata	aaaagcttga	gcccatttca	1800
aatgatgacc	tgctgggtgt	tgagaaatac	cagcgaaggc	ggaagtacag	cctgtctgcc	1860
gtgtttcatt	cagccaccat	gttgcaagat	gttgggtgagg	ccattcagtt	tgaagtcagc	1920
attgggaact	atggcaacaa	gtttgacacc	acctgtaagc	ctttggcatc	aacaactcag	1980
tacagccgtg	ctgtatttga	tggcaactac	tattattact	tgccctgggc	ccacaccaag	2040
ccagttgtta	ccctgacttc	atactgggag	gatattagtc	atcgccctgga	tgccgtgaac	2100
actctcctag	ctatggcaga	acggctgcaa	acaaatatag	aagctctaaa	atcagggata	2160
caaggtaaaa	ttcctgcaaa	ccagctggct	gaattgtggc	tgaagctgat	agatgaagtt	2220
atagaagaca	cgagatacac	gttgcctctc	acagaaggaa	aagccaacgt	cacagttctc	2280
gatactcaga	tccgaaagct	gccgtccagg	tctctctccc	aaatacatga	ggcggctgtg	2340
aggatgaggt	cggaagccac	agatgtgaag	tccacactgg	cagaaattga	ggactggctt	2400
gataaattaa	tgcagctgac	tgaagagcca	cagaacagca	tgccctgacat	catcatctgg	2460
atgacccggg	gagagaagag	actggcctat	cgacgaattc	ccgcacatca	ggtcttgtac	2520
tccaccagtg	gtgagaatgc	atctggaaaa	tactgtggga	aaacccaaac	catctttctg	2580
aagtatccac	aggagaaaaa	caacggggcca	aagggtgcctg	tggagttgcg	agtgaacatc	2640
tggctaggct	taagtgtctg	ggagaagaag	tttaacagct	tcgcagaagg	aactttcacc	2700
gtctttgtctg	aaatgtatga	aaatcaagct	ctcatgtttg	gaaaatgggg	tactttctgga	2760
ttagtaggac	gtcataagtt	ttctgatgtc	acaggaaaaa	taaaactcaa	gagggaaattt	2820
tttctgcctc	caaaaggctg	ggaatgggaa	ggagagtggg	tagttgatcc	tgaaagaagc	2880
ttgctgactg	agcgagatgc	aggtcacacg	gagttcactg	atgaagtcta	tcagaacgag	2940
agccgctacc	ccgggggcga	ctggaagccg	cccgaggaca	cctacacgga	tgcgaaacggc	3000
gataaagcag	catcaccacg	cgagttgact	tgtcctccag	gttgggaatg	ggaagatgat	3060
gcatggtctt	atgacataaa	tcgagtgggtg	gatgagaaag	gctgggaata	tggaatcacc	3120
attcctcctg	atcataagcc	caaatcctgg	gttcgagcag	agaaaatgta	ccacactcat	3180
agacggcgaa	ggctggtccg	aaaacgcaag	aaagatttaa	cacagactgc	ttcaagcacc	3240
gcaagggcca	tggaggaatt	gcaagaccaa	gagggtcggg	aatatgcttc	tctaattggc	3300
tggaaatttc	actggaacaa	acgtagttca	gataccttcc	gccgcagacg	ctggaggaga	3360
aaaatggctc	cctcagaaac	acatgggtga	gtctgccatct	ttaaacttga	aggtgccctt	3420
ggggcgagaca	ctaccgaaga	tggggatgag	aagagcctgg	agaaacagaa	gcacagtgcc	3480
accactgtgt	tcggagcaaa	caccccccatt	gtttcctgca	attttgacag	agtctacatc	3540
taccatctgc	gctgctatgt	ctatcaagcc	agaaacctct	tggctttaga	taaggatagc	3600
ttttcagatc	catatgctca	tatctgtttc	ctccatcgga	gcaaaaccac	tgagatcatc	3660
cattcaaccc	tgaatcccac	gtgggaccaa	acaattatat	tcgatgaagt	tgaaatctat	3720
gggggaacccc	aaacagttct	acagaatcca	cccaaagtta	tcagtgaact	ttttgacaat	3780
gaccaagtgg	gcaaagatga	atttttagga	gaaagcattt	tctctcctgt	ggtgaaactg	3840
aactcagaaa	tggacatcac	acccaaactt	ctctggcacc	cagtaatgaa	tggagacaaa	3900
gcctgcgggg	atgtttctgt	aactgcagag	ctgattctga	ggggcaagga	tggtcccaac	3960
cttcccattc	ttccccctca	aagggcgcca	aatctataca	tgggtcccca	ggggatcagg	4020
cctgtggtcc	agctcactgc	cattgagatt	ctagcttggg	gcttaagaaa	tatgaaaaac	4080
ttccagatgg	cttctatcac	atccccagt	cttgttgtgg	agtgtggagg	agaaaggggtg	4140
gaatcgggtg	tgtacaaaaa	ccttaagaag	acacccaaact	ttccaagttc	tggtctcttc	4200
atgaaagtgt	tcttgcccaa	ggaggaattg	tacatgcccc	cactgggtgat	caaggtcatc	4260
gaccacaggc	agtttgggcg	gaagcctgtc	gtcggccagt	gcaccatcga	gcgcctggac	4320
cgctttcgct	gtgaccctta	tgcagggaaa	gaggacatcg	tcccacagct	caaagcctcc	4380
cttctgtctg	ccccaccatg	ccgggacatc	gttatcgaaa	tggaagacac	caaaccatta	4440
ctggcttcta	agctgacaga	aaaggaggaa	gaaatcgtgg	actggtggag	taaaattttat	4500
gcttcctcag	gggaacatga	aaaatgcgga	cagtatatctc	agaaaggcta	ttccaagctc	4560
aagatatata	attgtgaact	agaaaatgta	gcagaatttg	agggcctgac	agacttctca	4620
gatacgttca	agttgtaccg	aggcaagtcg	gatgaaaatg	aagatccttc	tgtggttgga	4680
gagtttaagg	gctcctttcg	gatctaccct	ctgcgggatg	accccagcgt	gccagccctc	4740
cccagacagt	ttcggaattt	acctgacagc	gtcccacagg	aatgcacggt	taggattttac	4800
attgttcgag	gcttagagct	ccagccccag	gacaacaatg	gcctgtgtga	cccttacata	4860
aaaataacac	tgggcaaaaa	agtcattgaa	gaccgagatc	actacattcc	caacactctc	4920
aacccagtct	ttggcaggat	gtacgaactg	agctgctact	tacctcaaga	aaaagacctg	4980
aaaatttctg	tctatgatta	tgacaccttt	acccgggatg	aaaaagtagg	agaaacaatt	5040
attgatctgg	aaaaccgatt	cctttcccgc	tttgggtccc	actgcggcat	accagaggag	5100
tactgtgttt	ctggagtcaa	tacctggcga	gatcaactga	gaccaacaca	gctgcttcaa	5160
aatgtcgcca	gattcaaagg	cttcccacaa	cccatccttt	ccgaagatgg	gagtagaatc	5220
agatatggag	gacgagacta	cagcttggat	gaatttgaag	ccaacaaaat	cctgcaccag	5280
cacctcgggg	cccctgaaga	gcggcttgct	cttcacatcc	tcaggactca	ggggcttggtc	5340

```

cctgagcacg  tggaaacaag  gactttgcac  agcaccttcc  agcccaacat  ttcccaggga  5400
aaacttcaga  tgtgggtgga  tgttttcccc  aagagtttgg  ggccaccagg  ccctcctttc  5460
aacatcacac  cccggaaagc  caagaaatac  tacctgcgtg  tgatcatctg  gaacaccaag  5520
gacgttatct  tggacgagaa  aagcatcaca  ggagaggaaa  tgagtacat  ctacgtcaaa  5580
ggctggattc  ctggcaatga  agaaaacaaa  cagaaaacag  atgtccatta  cagatctttg  5640
gatggtgaag  ggaattttta  ctggcgattt  gttttcccg  ttgactacct  tccagccgaa  5700
caactctgta  tcgttgcgaa  aaaagagcat  ttctggagta  ttgaccaaac  ggaatttcga  5760
atcccacca  ggctgatcat  tcagatatgg  gacaatgaca  agttttctct  ggatgactac  5820
ttgggtttcc  tagaacttga  cttgcgtcac  acgatcattc  ctgcaaaatc  accagagaaa  5880
tgcaggttgg  acatgattcc  ggacctcaaa  gccatgaacc  cccttaaagc  caagacagcc  5940
tccctctttg  agcagaagtc  catgaaagga  tgggtggccat  gctacgcaga  gaaagatggc  6000
gcccgcgtaa  tggctgggaa  agtggagatg  acattggaaa  tcctcaacga  gaaggaggcc  6060
gacgagaggc  cagccgggaa  ggggcgggac  gaacccaaca  tgaaccccaa  gctggactta  6120
ccaaatcgac  cagaaacctc  cttcctctgg  ttcaccaacc  catgcaagac  catgaagttc  6180
atcgtgtggc  gccgctttta  gtgggtcatc  atcggcttgc  tgttctgct  tatcctgctg  6240
ctcttcgtgg  ccgtgctcct  ctactctttg  ccgaactatt  tgtcaatgaa  gattgtaaag  6300
ccaaatgtgt  aacaaaggca  aaggcttcat  ttccagagtc  atccagcaat  gagagaatcc  6360
tgctctgtga  gaccaacatc  cagtgtgatt  ttgtgtctga  gaccacacc  cagtagcagg  6420
ttacgccatg  tcaccgagcc  ccattgattc  ccagagggtc  ttagtcctgg  aaagtcaggc  6480
caacaagcaa  cgtttgcac  atgttatctc  ttaagtatta  aaagttttat  tttctaaagt  6540
ttaaatactg  tttttcaaaa  tatttttcaa  ggtggctggg  tccattttaa  aatcatcttt  6600
ttatatgtgt  cttcggttct  agacttcagc  ttttgaaaat  tgctaaatag  aattcaaaaa  6660
tctctgcac  ctgaggtgat  ataactcata  tttgtaatca  actgaaagag  ctgtgcatta  6720
taaaatcagt  tagaatagtt  agaacaattc  ttatttatgc  ccacaaccat  tgctatattt  6780
tgtatggatg  tcataaaagt  ctatttaacc  tctgtaatga  aactaaataa  aaatgtttca  6840
cctttaaaaa  aaaaaaaaaa  aaaaaagggg  gggccgaacc  caatcgccca  ttggaggggt  6900
atccaaataa  tggccgcttt  acannnn  6927

```

<210> 934

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 934

```

cgacccacgc  gtccgatcct  cccttcactg  ggcacgagct  tctctcccag  ggcggtgcga  60
cccggagctc  cagcgccccg  gtctccactt  cgtttgctga  aacttgcttt  ctaccagcta  120
agaaccatgc  tgcagtgat  tgtggaatct  gccagcaata  tccctaaaaa  gaaatttggc  180
aagccggtac  ctattgtttc  tgctattttt  aaggatgaga  aaaagaaaac  aaagaaagtt  240
gataatgaat  tgaaccctgt  ctggaatgag  attttgaggt  ttgacttgag  gggatatacca  300
ctggactttt  catcttccct  tgggattatt  gtgaaagatt  ttgagacaat  tggacaaaaa  360
aaattaattg  gcacggcgac  tgtagccctg  aaggacctga  ctggtgacca  gagcagatcc  420
ctgccgtaca  agctgatctc  cctgctaaat  gaaaaagggc  aagatactgg  ggccaccatt  480
gacttggtga  tcggctatga  tccgccttct  gctccacatc  caaatgacct  gagcggggcc  540
agcgtgccag  gcatgggagg  agatggggaa  gaagatgaag  gtgatgaaga  caggttggac  600
aatgcagtca  ggggccctgg  gcccaagggg  ccagttggga  cggtgtcgga  agctcagctt  660
gctcggaggc  tcaccaaagt  aaagaacagc  cggcggtatg  tgtcaataaa  gccacaggac  720
ttccagatcc  gcgtccgagt  gattgagggc  cgacagttaa  gtggttaaaa  cataaggcct  780
gtggtcaaa  ttacagtcct  tggccagaca  caccgaacaa  gaatcaagag  aggaacaac  840
cctttttttg  atgagttgtt  tttctacaat  gtcaacatga  cctctctgca  attgatggat  900
gagatcatca  gcatccgggt  ttataattct  cactctctgc  gggcagattg  tctgatgggg  960
gaatttaaga  ttgatgttgg  atttgtttat  gatgaacctg  gccatgctgt  catgagaaa  1020
tggcttcttc  tcaatgacc  ggaagatacc  agttcaggtt  cttaaaggta  tatgaaagt  1080
agcatgtttg  tcctgggaac  cgagatgag  cctcctcctg  agagacgaga  tcgtgataat  1140
gacagtgatg  atgtggagag  taatttggtt  ctccctgctg  gcattgccct  ccggtgggtg  1200
accttcttgc  tgaaaatcta  ccgagctgag  gacatcccc  agatggatga  tgcttctca  1260
cagacagtaa  aggaatat  tggaggcaat  gcagataaga  aaaatctcgt  ggatcctttt  1320

```

gtagaagttt	cctttgctgg	aaaaaagggt	tgtacaaaca	taattgagaa	aaatgcaaac	1380
ccagagtggg	atcaggctcg	caatcttcag	atcaagtttc	cttcagtggt	tgaaaaaata	1440
aaactaacia	tatatgactg	ggaccgtctt	actaaaaatg	atgtagttgg	aacaacatat	1500
ctacacctct	ctaaaattgc	tgcctctggg	ggggaagtg	aagattttct	atcttcggga	1560
actggggctg	catcatatac	agtaaacaca	ggagaaacag	aggtaggctt	tgttccaacg	1620
tttgacctt	gttacctgaa	tctttatgga	agccccagag	agtacacggg	attcccagac	1680
ccctatgatg	agctgaatac	tggaaaagg	gaaggagttg	cctacagagg	caggatcttg	1740
gttgaattag	ccacttttct	tgagaagaca	ccaccagata	aaaagcttga	gccattttca	1800
aatgatgacc	tgctgggtgt	tgagaaatac	cagcgaaggc	ggaagtacag	cctgtctgcc	1860
gtgtttcatt	cagccaccat	gttgcaagat	gttggtgagg	ccattcagtt	tgaagtcagc	1920
attgggaact	atggcaacaa	gtttgacacc	acctgtaagc	ctttggcatc	aacaactcag	1980
tacagccgtg	ctgtatttga	tggaactac	tattattact	tgccttgggc	ccacaccaag	2040
ccagtgttta	ccctgacttc	atactgggag	gatattagtc	atcgccctga	tgcggtgaac	2100
actctatgat	acgtggcaga	acggctgcaa	acaaatatag	aagctctaaa	atcagggata	2160
caaggtaaaa	ttcctgcaaa	ccagctggct	gaattgtggc	tgaagctgat	agatgaagtt	2220
atagaagaca	cgagatacac	gttgccctct	acagaaggaa	aagccaacgt	cacagttctc	2280
gatactcaga	tccgaaagct	gcgggtccagg	tctctctccc	aaatacatga	ggcggtctgt	2340
aggatgaggt	cggaagccac	agatgtgaag	tccacactgg	cagaaattga	ggactggctt	2400
gataaattaa	tgagctgac	tgaagagcca	cagaacagca	tgcctgacat	catcatctgg	2460
atgatccggg	gagagaagag	actggcctat	gcacgaattc	ccgcacatca	ggtcttgtac	2520
tccaccagt	gtgagaatgc	atctggaaaa	tactgtggga	aaacccaaac	catctttctg	2580
aagtatccac	aggagaaaaa	caacgggcca	aaggtgcctg	tggagttgag	agtgaacatc	2640
tggctaggct	taagtgtgt	ggagaagaag	tttaacagct	tcgcagaagg	aactttcacc	2700
gtctttgctg	aaatgtatga	aaatcaagct	ctcatgtttg	gaaaatgggg	tactttctga	2760
ttagtaggac	gtcataagtt	ttctgatgtc	acaggaaaaa	taaaactcaa	gagggaattt	2820
tttctgcctc	caaaaggctg	ggaatgggaa	ggagagtggg	tagttgatcc	tgaaagaagc	2880
ttgctgactg	aggcagatgc	aggtcacacg	gagttcactg	atgaagtcta	tcagaacgag	2940
agccgttacc	ccggggcgga	ctggaagccg	gccgaggaca	cctacacgga	tgcgaaacgg	3000
gataaagcag	catcacccag	cgagttgact	aagctctccg	gttgggaatg	ggaagatgat	3060
gcatggtctt	atgacataaa	tcgagtgtgt	gatgagaaag	gctgggaata	tggaaatcac	3120
attctctctg	atcataagcc	caaatectgg	gttcgagcag	agaaaatgta	ccacactcat	3180
agacggcgaa	ggctgggtccg	aaaacgcaag	aaagatttaa	cacagactgc	ttcaagcacc	3240
gcaagggcca	tggaggaatt	gcaagaccaa	gagggctggg	aatatgcttc	tctaattggc	3300
tggaaatttc	actggaaaca	acgtagtcca	gataccttcc	gccgcagacg	ctggaggaga	3360
aaaaatggctc	cttcagaaac	acatgggtga	gctgccatct	ttaaacttga	aggtgccctt	3420
ggggcagaca	ctacgaaga	tggggatgag	agagccctgg	agaaacagaa	gcacagtgc	3480
accactgtgt	tcggagcaaa	cacccccatt	gtttcctgca	attttgacag	agtctacatc	3540
taccatctgc	gctgctatgt	ctatcaagcc	agaaacctct	tggctttaga	taaggatagc	3600
ttttcagatc	catatgctca	tatctgtttc	ctccatcgga	gcaaaaccac	tgagatcatc	3660
cattcaaccc	tgaatcccac	gtgggaccaa	acaattatat	tcgatgaagt	tgaatcttat	3720
ggggaacccc	aaacagttct	acagaatcca	cccaaagtta	tcagtgaact	ttttgacaat	3780
gaccaagtgg	gcaaagatga	attttttaga	cgaagcattt	tctctcctgt	ggtgaaactg	3840
aactcagaaa	tggacatcac	acccaaactt	ctctggcacc	cagtaatgaa	tggagacaaa	3900
gcctgcgggg	atgttcttgt	aaactgcagag	ctgattctga	ggggcaagga	tggctccaac	3960
cttcccattc	ttccccctca	aagggcgcca	aatctataca	tgggtcccca	ggggatcagg	4020
cctgtgtgct	agctcactgc	cattgagatt	ctagcttggg	gcttaagaaa	tatgaaaaac	4080
ttccagatgg	cttctatcac	atccccag	cttgttggg	agtgtggagg	agaaaggggtg	4140
gaatcggtgg	tgatcaaaaa	ccttaagaag	acacccaact	ttccaagttc	tgttctcttc	4200
atgaaagtgt	tcttgcccaa	ggaggaattg	tacatgcccc	cactggtgat	caaggctcatc	4260
gaccacaggc	agtttggg	gaagcctgtc	gtcgccag	gcaccatcga	gcgcctggac	4320
cgctttcgct	gtgacctta	tgcaggga	gaggacatcg	tcccacagct	caaagcctcc	4380
cttctgtctg	ccccaccatg	ccgggacatc	gttatcgaaa	tggagacac	caaaccatta	4440
ctggcttcta	agctgacaga	aaaggaggaa	gaaatcgtgg	actggtggag	taaattttat	4500
gcttcctcag	gggaacatga	aaaatgcgga	cagtatatct	agaaaggcta	ttccaagctc	4560
aagatatata	attgtgaact	agaaaatgta	gcagaatttg	agggcctgac	agacttctca	4620
gatacgttca	agttgtaccg	aggcaagtgc	gatgaaaatg	aagatccttc	tgtggttggg	4680
gagtttaagg	gtcttttcg	gatctacct	gtccggatg	acccagcgt	gccagcccct	4740
cccagacagt	ttcgggaatt	acctgacagc	gtcccacagg	aatgcacggt	taggatttac	4800
attgttcgag	gcttagagct	ccagccccag	gacaacaatg	gcctgtgtga	cccttacata	4860
aaaataacac	tgggcaaaaa	agtcattgaa	gaccgagatc	actacattcc	caacactctc	4920
aaccagctct	ttggcaggat	gtacgaactg	agctgctact	tacctcaaga	aaaagacctg	4980


```

aaaatttctg tctatgatta tgacaccttt acccgggatg aaaaagtagg agaaacaatt 5040
attgatctgg aaaaccgatt cctttcccgc tttgggtccc actgcggcat accagaggag 5100
tactgtgttt ctggagtcaa tacctggcga gatcaactga gaccaacaca gctgcttcaa 5160
aatgtcgcca gattcaaagg cttcccacaa cccatccttt ccgaagatgg gtagaagaatc 5220
agatatggag gacgagacta cagcttggat gaatttgaag ccaacaaaat cctgcaccag 5280
cacctcgggg cccctgaaga gcggttgct cttccatccc tcaggactca ggggctggtc 5340
cctgagcacc tggaacaag gactttgcac agcaccttcc agcccaacat ttcccaggga 5400
aaacttcaga tgtgggtgga tgttttcccc aagagtttgg ggccaccagg cctccttttc 5460
aacatcacac cccggaaagc caagaaatac tacctgcgtg tgatcatctg gaacaccaag 5520
gacgttatct tggacgagaa aagcatcaca ggagaggaaa tgagtgcacat ctacgtcaaa 5580
ggctggattc ctggcaatga agaaaacaaa cagaaaacag atgtccatta cagatctttg 5640
gatggtgaag ggaattttta ctggcgattt gttttcccgt ttgactacct tccagccgaa 5700
caactctgta tcgttgcgaa aaaagagcat ttctggagta ttgaccaaac ggaatttcga 5760
atcccacca ggctgatcat tcagatatgg tcaaatgaca agttttctct ggatgactac 5820
ttgggtttcc tagaacttga cttgcgtcac acgatcattc ctgcaaaatc accagagaaa 5880
tgcaggttgg acatgattcc ggacctcaaa gccatgaacc cccttaaagc caagacagcc 5940
tccctctttg agcagaagtc catgaaagga tgggtggccat gctacgcaga gaaagatggc 6000
gccgcgctaa tggctgggaa agtggagatg acattggaaa tcctcaacga gaaggaggcc 6060
gacgagaggc cagccgggaa ggggcgggac gaacccaaca tgaaccccaa gctggactta 6120
ccaaatcgac cagaaacctc cttcctctgg ttcaccaacc catgcaagac catgaagttc 6180
atcgatgggc gccgctttta gtgggtcatc atcggcttgc tgttctgct tatcctgctg 6240
ctctctgctg ccgtgctcct ctactctttg ccgaactatt tgtcaatgaa gattgtaaag 6300
ccaaatgtgt aacaaaggca aaggcttcat ttccagagtc atccagcaat gagagaatcc 6360
tgcctctgta gaccaacatc cagtgtgatt ttgtgtctga gaccacacc cagtagcagg 6420
ttacgccatg tcaccgagcc ccattgattc ccagagggtc ttagtctctg aaagtcaggc 6480
caacaagcaa cgtttgcac atgttatctc ttaagtatta aaagttttat tttctaaagt 6540
ttaaatacatg tttttcaaaa tatttttcaa ggtggctggg tccattttaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttgaaat tgctaaatag aattcaaaaa 6660
tctctgcata ctgaggtgat atacttcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tagaatagtt agaacaattc ttatttatgc ccacaaccat tgctatatat 6780
tgtatggatg tcataaaagt ctatttaacc tctgtaatga aactaaataa aaatgtttca 6840
cctttaaaaa aaaaaaaaaa aaaaaagggg gggccgaacc caatcgcta ttggaggggt 6900
atccaaataa tggcgcgttt acannnn 6927

```

<210> 935

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 935

```

cgacccacgc gtccgatcct cccttcaactg ggcacgagct tctctcccag ggcggtgoga 60
cccgagctc cagcgcccga gtctccactt cgtttgctga aacttgcttt ctaccagcta 120
agaaccatgc tgcgagtgat tgtggaatct gccagcaata tccctaaaaa gaaatttggc 180
aagccggatc ctattgtttc tgtcattttt aaggatgaga aaaagaaaac aaagaaagtt 240
gataatgaat tgaaccctgt ctggaatgag attttggagt ttgacttgag ggtataacca 300
ctggactttt catcttccct tgggattatt gtgaaagatt ttgagacaat tggacaaaat 360
aaattaattg gcacggcgac tgtagccctg aaggacctga ctggtgacca gagcagatcc 420
ctgccgtaca agctgatctc cctgctaaat gaaaaagggc aagatactgg ggccaccatt 480
gacttgggtga tcggctatga tccgccttct gctccacatc caaatgacct gagcggggcc 540
agcgtgccag gcatgggagg agatggggaa gaagatgaag gtgatgaaga caggttggac 600
aatgcagtca ggggccctgg gcccaagggg ccagttggga cgggtgcgga agctcagctt 660
gctcggaggc tcaccaaagt aaagaacagc cgcgggatgc tgtcaataaa gccacaggac 720
ttccagatcc gcgtccgagt gattgagggc cgacagttaa gtggtaacaa cataaggcct 780
gtggtcaaag ttcacgtctg tggccagaca caccgaacaa gaatcaagag aggaacaac 840
cctttttttg atgagttgtt tttctacaat gtcaacatga ccccttctga attgatggat 900
gagatcatca gcatccgggt ttataattct cactctctgc gggcagattg tctgatgggg 960

```


gaatttaaga	ttgatgttg	atttgtttat	gatgaacctg	gccatgctgt	catgagaaag	1020
tggcttcttc	tcaatgaccc	ggaagatacc	agttcaggtt	ctaaagggtta	tatgaaagtc	1080
agcatgtttg	tcctgggaac	cggagatgag	cctcctcctg	agagacgaga	tcgtgataat	1140
gacagtgtatg	atgtggagag	taatttggtta	ctccctgctg	gcattgccct	ccggtgggtg	1200
accttcttgc	tgaaaatcta	cggagctgag	gacatccccc	agatggatga	tgcttctca	1260
cagacagtaa	aggaaatatt	tggaggcaat	gcagataaga	aaaatctcgt	ggatcctttt	1320
gtagaagttt	cctttgctgg	aaaaaagggt	tgtacaaaca	taattgagaa	aaatgcaaac	1380
ccagagtggga	atcaggctgt	caatcttcag	atcaagtttc	cttcagtgtg	tgaaaaata	1440
aaactaacia	tatatgactg	ggaccgtctt	actaaaaatg	atgtagtgtg	aacaacatat	1500
ctacacctct	ctaaaattgc	tgcctctggt	ggggaagtgg	aagatttctc	atcttcggga	1560
actggggctg	catcatatac	agtaaacaca	ggagaaacag	aggtaggctt	tgttccaacg	1620
tttgacctt	gttacctgaa	tctttatgga	agccccagag	agtacacggg	attcccagac	1680
ccctatgatg	agctgaatac	tggaaagggg	gaaggagtgt	cctacagagg	caggatcttg	1740
aatgaagttg	ccacttttct	tgagaagaca	ccaccagata	aaaagcttga	gcccatttca	1800
aatgatgacc	tgctggttgt	tgagaaatac	cagcgaaggc	ggaagtacag	cctgtctgcc	1860
gtgtttcatt	cagccaccat	gttgcaagat	gttggtgagg	ccattcagtt	tgaagtcagc	1920
attgggaact	atggcaacia	gtttgacacc	acctgtaagc	ctttggcatc	aacaactcag	1980
tacagccgtg	ctgtatttga	tggcaactac	tattattact	tgccttgggc	ccacaccaag	2040
ccagttgtta	ccctgacttc	atactgggag	gatattagtc	atcgctgga	tgcggtgaac	2100
actctcctag	ctatggcaga	acggctgcaa	acaaatatag	aagctctaaa	atcagggata	2160
caaggtaaaa	ttcctgcaaa	ccagctggct	gaattgtggc	tgaagctgat	agatgaagtt	2220
atagaagaca	cgagatacac	gttgctcttc	acagaaggaa	aagccaacgt	cacagttctc	2280
gatactcaga	tccgaaagct	gcggtccagg	tctctctccc	aaatacatga	ggcggtctgt	2340
aggatgaggt	cggaaagccac	agatgtgaag	tccacactgg	cagaaattga	ggactggctt	2400
gataaattaa	tgcagctgac	tgaagagcca	cagaacagca	tgcctgacat	catcatctgg	2460
atgatccggg	gagagaagag	actggcctat	gcacgaattc	ccgcacatca	ggtcttgtac	2520
tccaccagtg	gtgagaatgc	atctggaaaa	tactgtggga	aaacccaaac	catctttctg	2580
aagtatccac	aggagaaaaa	caacggggca	aagggtgcctg	tggagttgcy	agtgaacatc	2640
tggctaggtt	taagtgtatg	ggagaagaag	tttaacagct	tcgcagaagg	aactttcacc	2700
gtctttgctg	aaatgtatga	aaatcaagct	ctcatgtttg	gaaaaatggg	tacttctgga	2760
ttagtaggac	gtcataagtt	ttctgatgtc	acaggaaaaa	taaaactcaa	gagggaattt	2820
tttctgcctc	caaaaggctg	ggaatgggaa	ggagagtggg	tagttgatcc	tgaaagaagc	2880
ttgctgactg	aggcagatgc	aggtcacacg	gagttcactg	atgaagtcta	tcagaacgag	2940
agccgctacc	ccggggggcg	ctggaagccg	gccgaggaca	cctacacgga	tcggaacggc	3000
gataaagcag	catcaccag	cgagttgact	tgtcctccag	gttgggaaatg	ggaagatgat	3060
gcctggtctt	atgacataaa	tcgagtgtgt	gtgagaaaag	gctgggaata	tggaaatcac	3120
attcctcctg	atcataagcc	caaatectgg	gttgacagag	agaaaatgta	ccacactcat	3180
agacggcgaa	ggctggtccg	aaaacgcaag	aaagatttaa	cacagactgc	ttcaagcacc	3240
gcaagggcca	tggaggaatt	gcaagaccaa	gagggtctgg	aatatgcttc	tctaattggc	3300
tggaaatttc	actggaaaca	acgtagttca	gataccttcc	gccgcagacg	ctggaggaga	3360
aaaatggctc	cttcagaaac	acatggtgca	gctgccatct	ttaaacttga	agggtgccctt	3420
ggggcagaca	ctaccgaaga	tggggatgag	aagagcctgg	agaaacagaa	gcacagtgc	3480
accactgtgt	ctggagcaaa	cacccccatt	gtttcctgca	attttgacag	agtctacatc	3540
taccatctgc	gctgctatgt	ctatcaagcc	agaaacctct	tggtctttaga	taaggatagc	3600
ttttcagatc	catatgctca	tatctgtttc	ctccatcgga	gcaaaaccac	tgagatcatc	3660
cattcaaccc	tgaatcccac	gtgggaccaa	acaattatat	tcgatgaagt	tgaatctat	3720
ggggaacccc	aaacagttct	acagaatcca	cccaaagtta	tcagtgaact	ttttgacaat	3780
gaccaagtgg	gcaaagatga	atttttagga	cgaagcattt	tctctcctgt	ggtgaaactg	3840
aactcagaaa	tggacatcac	acccaaactt	ctctggcacc	cagtaatgaa	tggagacaaa	3900
gcttgcgggg	atgttcttgt	aactgcagag	ctgattctga	ggggcaagga	tggctccaac	3960
cttcccattc	ttccccctca	aagggcgcca	aatctataca	tgggtcccca	ggggatcagg	4020
cctgtggtcc	agctcactgc	cattgagatt	ctagcttggg	gcttaagaaa	tatgaaaaac	4080
ttccagatgg	cttctatcac	atccccagt	cttggtgtgg	agtgtggagg	agaaaggggtg	4140
gaatcggtgg	tgatcaaaaa	ccttaagaag	acacccaact	ttccaagtgc	tggtctcttc	4200
atgaaagtgt	tcttgcccaa	ggaggaattg	tacatgcccc	cactggtgat	caagggtcatc	4260
gaccacaggc	agtttgggcy	gaagcctgtc	gtcggccagt	gcaccatcga	gcgcctggac	4320
cgttttcgct	gtgaccctta	tgcagggaac	gaggacatcg	tcccacagct	caaagcctcc	4380
cttctgtctg	ccccaccatg	ccgggacatc	gttatcgaaa	tggaaagcac	caaaccatta	4440
ctggcttcta	agctgacaga	aaaggaggaa	gaaatcgtgg	actggtggag	taaattttat	4500
gcttcctcag	gggaacatga	aaaatgcgga	cagtatatct	agaaaggcta	ttccaagctc	4560
aagatatata	attgtgaact	agaaaatgta	gcagaatttg	agggcctgac	agacttctca	4620

```

gatacgttca agttgtaccg aggcaagtcg gatgaaaatg aagatccttc tgtggttggg 4680
gagtttaagg gctcctttcg gatctaccct ctgccggatg accccagcgt gccagcccct 4740
cccagacagt ttcggggaatt acctgacagc gtcccacagg aatgcacggt taggatttac 4800
attgttcgag gcttagagct ccagccccag gacaacaatg gcctgtgtga cccttacata 4860
aaaataacac tgggcaaaaa agtcattgaa gaccgagatc actacattcc caacactctc 4920
aaccagtcct ttggcaggat gtacgaactg agctgctact tacctcaaga aaaagacctg 4980
aaaatttctg tctatgatta tgacaccttt acccgggatg aaaaagtagg agaaacaatt 5040
attgatctgg aaaaccgatt cctttcccgc tttgggtccc actgcggcat accagaggag 5100
tactgtgttt ctggagtcaa tacctggcga gatcaactga gaccaacaca gctgcttcaa 5160
aatgtcgcca gattcaaagg cttcccacaa cccatccttt ccgaagatgg gagtagaatc 5220
agatatggag gacgagacta cagcttggtg gaatttgaag ccaacaaaat cctgcaccag 5280
cacctcgggg cccctgaaga gcggcttgct cttcacatcc tcaggactca ggggctggtc 5340
cctgagcacg tggaaacaag gactttgcac agcaccttcc agcccaacat ttcccaggga 5400
aaatttccag ttgggttggg tgttttcccc aagagtttgg ggccaccagg cctctcttcc 5460
aacatcacac cccggaagc caagaaatac tacctgcgtg tgatcatctg gaacaccaag 5520
gacgttatct tggacgagaa aagcatcaca ggagaggaaa tgagtacat ctacgtcaaa 5580
ggctggattc ctggcaatga agaaaacaaa cagaaaacag atgtccatta cagatctttg 5640
gatggtgaag ggaattttta ctggcgattt gttttcccgt ttgactacct tccagccgaa 5700
caactctgta tcgttgcgaa aaaagagcat ttctggagta ttgacaaaac ggaatttcga 5760
atcccacca ggctgatcat tcagatatgg gacaatgaca agttttctct ggatgactac 5820
ttgggtttcc tagaacttga cttgcgtcac acgatcattc ctgcaaaatc accagagaaa 5880
tgcaggttgg acatgattcc ggacctcaaa gccatgaacc cccttaaagc caagacagcc 5940
tccctctttg agcagaagtc catgaaagga tgggtggccat gctacgcaga gaaagatggc 6000
gcccgcgtaa tggctgggaa agtggagatg acattggaaa tcctcaacga gaaggaggcc 6060
gacgagaggc cagccgggaa ggggcgggac gaaccaaca tgaaccccaa gctggactta 6120
ccaaatcgac cagaaacctc cttcctctgg ttcaccaacc catgcaagac catgaagttc 6180
atcgtgtggc gccgctttta gtgggtcatc atcggcttgc tgttcctgct tatcctgctg 6240
ctcttcgtgg ccgtgctcct ctactctttg ccgaactatt tgtcaatgaa gattgtaaag 6300
ccaaatgtgt aacaaaggca aaggcttcat ttccagagtc atccagcaat gagagaatcc 6360
tgctctgta gaccaacatc cagtgtgatt ttgtgtctga gaccacacc cagtagcagg 6420
ttacgccatg tcaccgagcc ccattgatcc ccagagggtc ttagtcctgg aaagtcaggc 6480
caacaagcaa cgtttgcatc atgttatctc ttaagtatta aaagttttat tttctaaagt 6540
ttaaatacatg tttttcaaaa tatttttcaa ggtggctggg tccattttaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttggaat tgctaaatag aattcaaaaa 6660
tctctgcatc ctgaggtgat atacttcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tagaatagtt agaacaattc ttatttatgc ccacaacct tgctatat 6780
tgtatggatg tcataaaagt ctatttaacc tctgtaatga aactaaataa aaatgtttca 6840
cctttaaaaa aaaaaaaaaa aaaaaagggg gggccgaacc caatcgctta ttggaggggt 6900
atccaaataa tggccgcttt acannnn 6927

```

<210> 936

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 936

```

cgacccacgc gtccgatcct cccttcaactg ggcaagagct tctctccag ggcggtgcga 60
cccgagctc cagcgcccga gtctccactt cgtttgctga aacttgcttt ctaccagcta 120
agaacctgct tgcgagtgat tgtggaatct gccagcaata tccctaaaac gaaatttggc 180
aagccggatc ctattgtttc tgcatTTTTT aaggatgaga aaaagaaaac aaagaaagt 240
gataatgaat tgaacctgt ctggaatgag attttgaggt ttgacttgag ggtataacca 300
ctggactttt catcttcct tgggattatt gtgaaagatt ttgagacaat tggacaaaat 360
aaattaattg gcacggcgac tgtagccctg aaggacctga ctggtgacca gagcagatcc 420
ctgccgtaca agctgatctc cctgctaaat gaaaaagggc aagatactgg ggccaccatt 480
gacttggtga tcggctatga tccgccttct gctccacatc caaatgacct gagcggggcc 540
agcgtgccag gcatgggagg agatggggaa gaagatgaag gtgatgaaga caggttggac 600

```

```

aatgcagtca ggggccctgg gcccaagggg ccagttggga cgggtgctgga agctcagctt 660
gctcggaggc tcaccaaagt aaagaacagc cggcggatgc tgtcaaataa gccacaggac 720
ttccagatcc gcgtccgagt gattgagggc cgacagttaa gtggtaacaa cataaggcct 780
gtggtcaaaag ttcacgtctg tggccagaca caccgaacaa gaatcaagag aggaaacaac 840
cctttttttg atgagttgtt tttctacaat gtcaacatga ccccttctga attgatggat 900
gagatcatca gcatccgggt ttataattct cactctctgc gggcagattg tctgatgggg 960
gaatttaaga ttgatgttg atttgtttat gatgaacctg gccatgctgt catgagaaag 1020
tggcttcttc tcaatgaccc ggaagatacc agttcaggtt cttaaaggta tatgaaagtc 1080
agcatgtttg tcctgggaac cggagatgag cctcctcctg agagacgaga tcgtgataat 1140
gacagtgatg atgtggagag taatttggtta ctccctgctg gcattgccct ccggtgggtg 1200
accttcttgc tgaaaatcta ccgagctgag gacatcccc agatggatga tgccttctca 1260
cagacagtaa aggaaatatt tggaggcaat gcagataaga aaaatctcgt ggatcctttt 1320
gtagaagttt cctttgctgg aaaaaaggtt tgtacaaaca taattgagaa aaatgcaaac 1380
ccagttgga caatcttcag caatcttcag cttcagtggt cttcagtggt tgaaaaata 1440
aaactaaca tatatgactg ggaccgtctt actaaaaatg atgtagttg aacaacatat 1500
ctacacctct ctaaaattgc tgcctctggt ggggaagtgg aagatttctc atcttcggga 1560
actggggctg catcatatac agtaaacaca ggagaaacag aggtaggctt tgttccaacg 1620
tttgacctt gttacctgaa tctttatgga agcccagag agtacacggg attcccagac 1680
ccctatgatg agctgaatac tggaaagggg gaaggagttg cctacagagg caggatcttg 1740
gttgaattag ccacttttct tgagaagaca ccaccagata aaaagcttga gcccatttca 1800
aatgatgacc tgctggtgt tgagaaatac cagcgaaggc ggaagtacag cctgtctgac 1860
gtgtttcatt cagccaccat gttgcaagat gttggtgagg ccattcagtt tgaagtgcag 1920
attgggaact atggcaacaa gtttgacacc acctgtaagc ctttggcatc aacaactcag 1980
tacagccgtg ctgtatttga tggcaactac tattattact tgccttgggc ccacaccaag 2040
ccagttgtta cctgacttc atactgggag gatattagtc atcgctgga tgcggtgaac 2100
actctcctag ctatggcaga acggtgcaa acaaatatag aagctctaaa atcagggata 2160
caaggtaaaa ttcctgcaaa ccagctggct gaattgtggc tgaagctgat agatgaagtt 2220
atagaagaca cgagatacac gttgcctctc acagaaggaa aagccaacgt cacagttctc 2280
gatactcaga tccgaaagct gcggtccagg tctctctccc aaatacatga ggcggtctgt 2340
aggatgaggt cggaaagccac agatgtgaag tccacactgg cagaaattga ggatggctt 2400
gataaattaa tgcagctgac tgaagagcca cagaacagca tgcctgacat catcatctgg 2460
atgatccggg gagagaagag actggcctat gcacgaattc cgcacatca ggtctgttac 2520
tccaccagtg gtgagaatgc atctggaaaa tactgtggga aaacccaaac catctttctg 2580
aagtatccac aggagaaaaa caacgggcca aaggtgcctg tggagttgcg agtgaacatc 2640
tggctaggct taagtgtgt ggagaagaag tttaacagct tcgcagaagg aactttcacc 2700
gtctttgtg aaatgtatga aaatcaagct tctatgtttg gaaaatgggg tacttctgga 2760
ttagtaggac gtcataagtt ttctgatgtc acaggaaaaa taaaactcaa gagggaaattt 2820
tttctgcctc caaaaggctg ggaatgggaa ggagagtgg tagttgatcc tgaaagaagc 2880
ttgctgactg aggcagatgc aggtcacacg gagttcactg atgaagtcta tcagaacgag 2940
agccgctacc ccgggggcga ctggaagccg gccgaggaca cctacacgga tgcgaacggc 3000
gataaagcag catcaccag cgagttgact tgtcctccag gttgggaatg ggaagatgat 3060
gcattgtctt atgacataaa tgcagtgtgt gatgagaaag gctgggaata tggaaatcac 3120
attcctcctg atcataagcc caaatcctg gttgcagcag agaaaatgta ccacactcat 3180
agacggcgaa ggctgttccg aaaacgcaag aaagatttaa cacagactgc ttcaagcacc 3240
gcaagggcca tggaggaatt gcaagaccaa gagggctggg aatatgcttc tctaattggc 3300
tggaaatttc actggaaca acgtagtcca gataccttcc gccgcagacg ctggaggaga 3360
aaaatggctc cttcagaaac acatggtgca gctgccatct ttaaacttga aggtgccctt 3420
ggggcagaca ctaccgaaga tggggatgag aagagcctgg agaaacagaa gcacagtgcc 3480
accactgtgt tcggagcaaa cccccatt gtttctgca attttgacag agtctacatc 3540
tacctctgc gctgctatgt ctatcaagcc tggctttaga taaggatagc 3600
tttctagatc catatgctca tatctgttct cccatcgga gcaaaaccac tgagatcatc 3660
cattcaaccc tgaatcccac gtgggacca acaattatat tcgatgaagt tgaaatctat 3720
ggggaacccc aaacagtct acagaatcca ccaaagtta tcatggaact ttttgacaat 3780
gaccaagtgg gcaaagatga attttttagga cgaagcattt tctctcctgt ggtgaaactg 3840
aactcagaaa tggacatcac acccaaactt ctctggcacc cagtaatgaa tggagacaaa 3900
gcctgcgggg atgttcttgt aactgcagag ctgattctga ggggcaagga tggctccaac 3960
cttccattc ttcccccctc aaggcgcca aatctataca tggccccca ggggatcagg 4020
cctgtggtcc agctcactgc cattgagatt ctacttggg gcttaagaaa tatgaaaaac 4080
ttccagatgg cttctatcac atccccagt cttgttgtgg agtggtggag agaaaggggtg 4140
gaatcggtgg tgatcaaaaa ccttaagaag acaccaact ttccaagttc tgttctcttc 4200
atgaaagtgt tcttgcccaa ggaggaattg tacatgcccc cactggtgat caaggtcatc 4260

```

```

gaccacaggc agtttgggcg gaagcctgtc gtcggccagt gcaccatcga gcgcctggac 4320
cgctttcgct gtgaccctta tgcagggaaa gaggacatcg tcccacagct caaagcctcc 4380
cttctgtctg cccaccatg ccgggacatc gttatcgaaa tggagacac caaaccatta 4440
ctggcttcta agctgacaga aaaggaggaa gaaatcgtgg actggtggag taaattttat 4500
gcttcctcag gggaacatga aaaatgcgga cagtatatc agaaaggcta ttccaagctc 4560
aagatatata attgtgaact agaaaatgta gcagaatttg agggcctgac agacttctca 4620
gatacgttca agttgtaccg aggcaagtcg gatgaaaatg aagatccttc tgtggttggg 4680
gagtttaagg gctcctttcg gatctaccct ctgccggatg accccagcgt gccagcccct 4740
cccagacagt ttcggaatt acctgacagc gtcccacagg aatgcacggt taggatttac 4800
attgttcgag gcttagagct ccagccccag gacaacaatg gcctgtgtga cccttacata 4860
aaaataaacac tgggcaaaaa agtcattgaa gaccgagatc actacattcc caaactctc 4920
aaccagctct ttggcaggat gtacgaactg agctgctact tacctcaaga aaaagacctg 4980
aaaatttctg tctatgatta tgacaccttt acccgggatg aaaaagtagg agaaacaatt 5040
attgatcttg aaaaccgatt cctttcccgc tttgggtccc actgcggcat accagaggag 5100
tactgtgttt ctggagtcaa tacctggcga gatcaactga gaccaacaca gctgcttcaa 5160
aatgtcgcca gattcaaagg cttcccacaa cccatccttt ccgaagatgg gagtagaatc 5220
agatatggag gacgagacta cagcttggat gaatttgaag ccaacaaaat cctgcaccag 5280
cacctcgggg ccctgaaga gcggttggct cttcacatcc tcaggactca ggggtgtgtc 5340
cctgagcagc tggaaacaag gactttgcac agcaccttcc agcccaacat ttcccaggga 5400
aaacttcaga tgtgggtgga tgttttcccc aagagtttgg ggccaccagg ccctcctttc 5460
aacatccacac ccggaagagc caagaaatc tgatgcgtg tgatcatctg gaacaccaag 5520
gacgttatct tggacgagaa aagcatcaca ggagaggaaa tgagtgcacat ctacgtcaaa 5580
ggctggattc ctggcaatga agaaaacaaa cagaaaacag atgtccatta cagatctttg 5640
gatggtgaag ggaattttaa ctggcgattt gttttcccg ttgactacct tccagccgaa 5700
caactctgta tcggtgcgaa aaaagagcat ttctggagta ttgaccaaac ggaatttcga 5760
atcccaccca ggctgatcat tcagatatgg gacaatgaca agttttctct ggatgactac 5820
ttgggtttcc tagaacttga cttgcgtcac acgatcattc ctgcaaaatc accagagaaa 5880
tgcaggttgg acatgattcc ggacctcaaa gccatgaacc cccttaaagc caagacagcc 5940
tccctccttg agcagaagtc catgaaagga tgggtggccat gctacgcaga gaaagatggc 6000
gccgcgtaaa tggctgggaa agtggagatg acattggaaa tcctcaacga gaaggaggcc 6060
gacgagaggc cagccgggaa ggggcgggac gaacccaaca tgaaccccaa gctggactta 6120
ccaaatcgac cagaaacctc cttcctctgg ttcaccaacc catgcaagac catgaagttc 6180
atcggtgtgg gccgctttaa gtgggtcatc atcggttgc tgttcctgct tatcctgctg 6240
ctcttcgtgg ccgtgtcctc ctactctttg ccgaactatt tgtcaatgaa gattgtaaag 6300
ccaaatgtgt aacaaaggca aaggcttcac ttccagagtc atccagcaat gagagaatcc 6360
tgcctctgta gaccaacatc cagtgtgatt ttgtgtctga gaccacacc cagtagcagg 6420
ttacgccatg tcaccgagcc ccattgattc ccagagggtc ttagtcctgg aaagtcaggc 6480
caacaagcaa cgtttgcatc atgttatctc ttaagtatta aaagttttat tttctaagtt 6540
ttaaatcatg tttttcaaaa tatttttcaa ggtggctgg tccattttaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttgaaat tgctaaatag aattcaaaaa 6660
tctctgcatc ctgaggtgat atacttcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tcataagtt agaacaattc tattttatgc ccacaacct tgctatattt 6780
tgtatggatg tgaataaagt ctatttaacc tctgtaatga aactaaataa aaatgtttca 6840
cctttaaaaa aaaaaaaaaa aaaaaagggg gggccgaacc caatcgcta ttggaggggt 6900
atccaaataa tggccgcttt acannnn 6927

```

<210> 937

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 937

```

cgacccacgc gtccgatcct cccttcactg ggcaagagct tctctcccag ggcggtgcga 60
cccgagctc cagcgcccga gtctccactt cgtttgcgtg aacttgcttt ctaccagcta 120
agaacctgac tgcgagtgat tgtggaatct gccagcaata tccctaaaac gaaatttggc 180
aagccggatc ctattgtttt tgtcattttt aaggatgaga aaaagaaaac aaagaaagtt 240

```

gataatgaat	tgaaccctgt	ctggaatgag	atthttggagt	ttgacttgag	gggtatacca	300
ctggactttt	catcttccct	tgggattatt	gtgaaagatt	ttgagacaat	tggacaaaat	360
aaattaattg	gcacggcgac	tgtagccctg	aaggacctga	ctggtgacca	gagcagatcc	420
ctgccgtaca	agctgatctc	cctgctaaat	gaaaaagggc	aagatactgg	ggccaccatt	480
gacttggtga	tccgctatga	tccgccttct	gctccacatc	caaatgacct	gagcggggccc	540
agcgtgccag	gcatggggag	agatggggaa	gaagatgaag	gtgatgaaga	caggttgagc	600
aatgcagtca	ggggccctgg	gccccagggg	ccagttggga	cgggtgcgga	agctcagctt	660
gctcggaggc	tcaccaaagt	aaagaacagc	cggcggtatg	tgtcaaataa	gccacaggac	720
ttccagatcc	gcgtccgagt	gattgagggc	cgacagttaa	gtggtaacaa	cataaggcct	780
gtggtcaaa	ttcacgtctg	tggccagaca	caccgaacaa	gaatcaagag	aggaaacaac	840
cctttttttg	atgagttgtt	tttctacaat	gtcaacatga	ccccttctga	attgatggat	900
gagatcatca	gcatccgggt	ttataattct	cactctctgc	gggcagattg	tctgatgggg	960
gaatttaaga	ttgatgttgg	atthtgttat	gatgaacctg	gcatgtctgt	catgagaaa	1020
tggcttcttc	tcaatgacct	ggaagatacc	agttcaggtt	ctaaaggtta	tatgaaagtc	1080
agcatgtttg	tccctgggaac	cggagatgag	cctcctcctg	agagacgaga	tcgtgataat	1140
gacagtgatg	atgtgggag	taattttgta	ctccctgctg	gcattgccct	ccgttgggtg	1200
accttcttgc	tgaaaatcta	ccgagctgag	gacatcccc	agatggatga	tgcttctca	1260
cagacagtaa	aggaaatatt	tggaggcaat	gcagataaga	aaaatctcgt	ggatcctttt	1320
gtagaagttt	cctttgctgg	aaaaaagggt	tgtacaaaca	taattgagaa	aaatgcaaac	1380
ccagagtggg	atcaggtcgt	caatcttcag	atcaagtttc	cttcagtggt	tgaaaaata	1440
aaactaacaa	tatatgactg	ggaccgtctt	actaaaaatg	atgtagtggg	aacaacata	1500
ctacacctct	ctaaaattgc	tgctcttggt	ggggaagtgg	aagatttctc	atcttcggga	1560
actggggctg	catcatatac	agtaaacaca	gggaaacag	aggtaggctt	tgttccaacg	1620
tttgaccctt	gttacctgaa	tctttatgga	agccccagag	agtacacggg	attcccagac	1680
ccctatgatg	agctgaatac	tggaaagggg	gaaggagttg	cctacagagg	caggatcttg	1740
gttgaaattg	ccacttttct	tgagaagaca	ccaccagata	aaaagcttga	gcccatttca	1800
aatgatgacc	tgctgggtgt	tgagaaatac	cagcgaaggc	ggaagtacag	cctgtctgcc	1860
gtgtttcatt	cagccaccat	gttgcaagat	gttgggtgag	ccattcagtt	tgaagtccag	1920
attgggaact	atggcaacaa	gtttgacacc	acctgtaagc	ctttggcatc	aacaactcag	1980
tacagccgtg	ctgtatttga	tggcaactac	tattattact	tgcttggggc	ccacaccaag	2040
ccagttgtta	ccctgacttc	atactgggag	gatattagtc	atcgctgga	tgcggtgaac	2100
actctcctag	ctatggcaga	acggctgcaa	acaaatatag	aagctctaaa	atcagggata	2160
caaggtaaaa	ttcctgcaaa	ccagctggct	gaattgtggc	tgaagctgat	agatgaagtt	2220
atagaagaca	cgagatacac	gttgccctct	acagaaggaa	aagccaacgt	cacagttctc	2280
gatactcaga	tccgaaagct	gcggtccagg	tctctctccc	aaatacatga	ggcggtctgt	2340
aggatgaggt	cgggaagcac	agatgtgaag	ccacactgg	cagaaattga	ggactggctt	2400
gataaattaa	tgagctgac	tgaagagcca	cagaacagca	tgctgacat	catcatctgg	2460
atgatccggg	gagagaagag	actggcctat	gcacgaattc	ccgcacatca	ggtcttgtac	2520
tccaccagtg	gtgagaatgc	atctggaaaa	tactgtggga	aaacccaaac	catctttctg	2580
aagtatccac	aggagaaaaa	caacgggcca	aaggtgcctg	tggagttgag	agtgaacatc	2640
tggctaggct	taagtgtctg	ggagaagaag	tttaacagct	tcgcagaagg	aactttcacc	2700
gtctttgtctg	aaatgtatga	aaatcaagct	ctcatgtttg	gaaaatgggg	tacttctgga	2760
ttagtaggac	gtcataagtt	ttctgatgtc	acaggaaaaa	taaaactcaa	gagggaaatt	2820
tttctgcctc	caaaaggctg	ggaatgggaa	ggagagtggg	tagttgatcc	tgaaagaagc	2880
ttgtctgactg	aggcagatgc	aggtcacacg	gagttcactg	atgaagtcta	tcagaacgag	2940
agccgctacc	ccgggggcca	ctggaagccg	gccgaggaca	cctacacgga	tgcaacgggc	3000
gataaagcag	catcaccacg	cgagttgact	tgtcctccag	gttgggaatg	ggaagatgat	3060
gcatggtctt	atgacataaa	tcgagtgggt	gatgagaaa	gctgggaata	tggaaatcac	3120
attctctcctg	atcataagcc	caaactcctg	gttgacagc	agaaaatgta	ccacactcat	3180
agacggcgaa	ggctgggtccg	aaaacgcaag	aaagatttaa	cacagactgc	ttcaagcacc	3240
gcaaggggcca	tggaggaatt	gcaagaccaa	gagggctggg	aatatgcttc	tctaattggc	3300
tggaaatttc	actggaaaca	acgtagtcca	gataccttcc	gccgcagacg	ctggaggaga	3360
aaaatggctc	cttcagaaac	acatgggtgca	gctgccatct	ttaaacttga	aggtgccctt	3420
ggggcagaca	ctaccgaaga	tggggatgag	aagagcctgg	agaaacagaa	gcacagtgcc	3480
accactgtgt	tccgagcaaa	cacccccatt	gtttcctgca	atthttgacag	agtctacatc	3540
taccatctgc	gctgctatgt	ctatcaagcc	agaaacctct	tggctttaga	taaggatagc	3600
ttttcagatc	tattctgttc	ctccatcgga	gcaaaaccac	tgagatccat	tgagatccat	3660
cattcaaccc	tgaatcccac	gtgggaccaa	acaattatat	tcgatgaagt	tgaaatctat	3720
ggggaacccc	aaacagttct	acagaatcca	cccaaagtta	tcagtgaact	ttttgacaat	3780
gaccaagtgg	gcaaagatga	atthtttagga	cgaagcattt	tctctcctgt	ggtgaaactg	3840
aactcagaaa	tggacatcac	acccaaactt	ctctggcacc	cagtaatgaa	tggagacaaa	3900

```

gcctgcgggg atgttcttgt aactgcagag ctgattctga ggggcaagga tggctccaac 3960
cttcccattc ttcccctca aagggcgcca aatctataca tgggtcccca ggggatcagg 4020
cctgtggtcc agctcactgc cattgagatt ctagtctggg gcttaagaaa tatgaaaaac 4080
ttccagatgg cttctatcac atccccagt cttgttgtgg agtgtggagg agaaaggggtg 4140
gaatcggtgg tgatcaaaaa ccttaagaag acacccaact ttccaagttc tgttctcttc 4200
atgaaagtgt tcttgcccaa ggaggaattg tacatgcccc cactggtgat caaggtcatc 4260
gaccacaggc agtttgggcg gaagcctgtc gtcgccaggt gcaccatcga gcgcctggac 4320
cgctttcgct gtgaccctta tgcagggaaa gaggacatcg tcccacagct caaagcctcc 4380
cttctgtctg cccaccatg cgggacatc gttatcgaaa tggagacac caaaccatta 4440
ctggcttcta agctgacaga aaaggaggaa gaaatcgtgg actggtggag taaattttat 4500
gcttcctcag gggaacatga aaaatgcgga cagtatatcc agaaaggcta ttccaagctc 4560
aagatatata attgtgaact agaaaatgta gcagaatttg agggcctgac agacttctca 4620
gatacgttca agttgtaccg aggcaagtgc gatgaaaatg aagatccttc tgtggttga 4680
gagtttaagg gctccttcg gatctaccct gtcccgatg accccagcgt gccagccctc 4740
cccagacagt ttcgggaatt acctgacagc gtcccacagg aatgcacggt taggatttac 4800
attgttcgag gcttagagct ccagccccag gacaacaatg gcctgtgtga cccttacata 4860
aaaataacac tgggcaaaaa agtcattgaa gaccgagatc actacattcc caacactctc 4920
aaccagctct ttggcaggat gtacgaactg agctgctact tacctcaaga aaaagacctg 4980
aaaatttctg tctatgatta tgacaccttt accgggatg aaaaagtagg agaacaatt 5040
attgatctgg aaaaccgatt cctttcccg c tttgggtccc actgcggcat accagaggag 5100
tactgtgttt ctggagtcaa tacctggcga gatcaactga gaccaacaca gctgcttcaa 5160
aatgtcgcca gattcaaaag cttcccacaa cccatccttt ccgaagatgg gagtagaatc 5220
agatatggag gacgagacta cagcttggat gaatttgaag ccaacaaaat cctgcaccag 5280
cacctcgggg cccctgaaga gcggttgcct cttcacatcc tcaggactca ggggctggtc 5340
cctgagcacg tggaacaag gactttgcac agcaacctcc agcccaacat ttcccaggga 5400
aaacttcaga tgtgggtgga tgttttcccc aagagtttgg ggccaccagg ccctcctttc 5460
aacatcacac cccggaaagc caagaaatac tacctgcgtg tgatcatctg gaacaccaag 5520
gacgttatct tggacgagaa aagcatcaca ggagaggaaa tgagtacat ctacgtcaaa 5580
ggctggttc ctggcaatga agaaaacaa cagaaaacag atgtccatta cagatctttg 5640
gatggtgaag ggaattttta ctggcgattt gttttcccg ttgactacct tccagccgaa 5700
caactctgta tcgttgcgaa aaaagagcat ttctggagta ttgaccaaac ggaatttcga 5760
atcccacca ggctgatcat tcagatatgg gacaatgaca agttttctct ggatgactac 5820
ttgggtttcc tagaacttga cttgcgtcac acgatcattc ctgcaaaaatc accagagaaa 5880
tgcaggttgg acatgattcc ggacctcaaa gccatgaacc cccttaaagc caagacagcc 5940
tccctctttg agcagaagtc catgaaagga tggtgccat gctacgcaga gaaagatggc 6000
gcccgcgtaa tggctgggaa agtggagatg acattggaaa tcctcaacga gaaggaggcc 6060
gacgagaggc cagccgggaa ggggcgggac gaacccaaca tgaaccccaa gctggactta 6120
ccaaatcgac cagaaacctc cttcctctgg ttaccaacc catgcaagac catgaagttc 6180
atcgtgtggc gccgctttaa gtgggtcatc atcggttgc tgttctgct tatcctgctg 6240
ctcttcgtgg ccgtgctcct ctactctttg ccgaactatt tgtcaatgaa gattgtaaag 6300
ccaaatgtgt aacaaaggca aaggcttcat ttccagagtc atccagcaat gagagaatcc 6360
tgacctgtga taaccaatc cagtgtgatt ttgtgtctga gaccacacc cagtagcagg 6420
ttacgccatg taccgagcc ccattgattc ccagagggtc ttagtcctgg aaagtcaggc 6480
caacaagcaa cgtttgcac atgttatctc ttaagtatta aaagttttat tttctaaagt 6540
ttaaatcatg tttttcaaaa ttttttcaa ggtggctggg tccattttaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttggaat tgctaaatag aattcaaaaa 6660
tctctgcac ctgaggtgat atacttcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tagaatagtt agaacaattc ttatttatgc ccacaaccat tgctatattt 6780
tgtatggatg tcataaaaagt ctatttaacc tctgtaatga aactaaataa aaatgtttca 6840
cctttaaaaa aaaaaaaaaa aaaaagggg gggccgaacc caatcgcta ttggaggggg 6900
atccaaataa tggccgcttt acannnn 6927

```

<210> 938

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 938

```

cgaccacgc  gtccgatcct  cccttcactg  ggcacgagct  tctctcccag  ggcggtgcga  60
cccggagctc  cagegcccgga  gtctccactt  cgtttgctga  aacttgcttt  ctaccagcta  120
agaaccatgc  tgcgagtgat  tgtggaatct  gccagcaata  tccctaaaac  gaaatttggc  180
aagccggatc  ctattgtttc  tgtcattttt  aaggatgaga  aaaagaaaac  aaagaaagtt  240
gataatgaat  tgaaccctgt  ctggaatgag  attttgaggt  ttgacttgag  gggatatcca  300
ctggactttt  catcttccct  tgggattatt  gtgaaagatt  ttgagacaat  tggacaaaat  360
aaattaattg  gcacggcgac  tgtagccctg  aaggacctga  ctggtgacca  gagcagatcc  420
ctgccgtaca  agctgatctc  cctgctaaat  gaaaaagggc  aagatactgg  ggccaccatt  480
gacttggtga  tcggctatga  tccgccttct  gctccacatc  caaatgacct  gagcggggcc  540
agcgtgccag  gcatgggagg  agatggggaa  gaagatgaag  gtgatgaaga  caggttgagg  600
aatgcagtc  ggggccctgg  gcccaagggg  ccagttggga  cggtgtcgga  agctcagctt  660
gctcgaggc  tcacaaagt  aaagaacagc  cggcggatgc  tgtcaaataa  gccacaggac  720
ttccagatcc  gcgtccgagt  gattgagggc  cgacagttaa  gtggtaacaa  cataaggcct  780
gtggtcaaa  ttcacgtctg  tggccagaca  caccgaacaa  gaatcaagag  aggaaacaac  840
cctttttttg  atgagttgtt  tttctacaat  gtcaacatga  ccccttctga  attgatggat  900
gagatcatca  gcatccgggt  ttataattct  cactctctgc  gggcagattg  tctgatgggg  960
gaatttaaga  ttgatgttgg  atttgtttat  gatgaacctg  gccatgctgt  catgagaaa  1020
tggcttcttc  tcaatgacct  ggaagatacc  agttcaggtt  ctaaagggtta  tatgaaagtc  1080
agcatgtttg  tcctgggaac  cggagatgag  cctcctctg  agagacgaga  tcgtgataat  1140
gacagtgatg  atgtggagag  taatttgtta  ctccctgctg  gcattgccct  ccggtgggtg  1200
accttcttgc  tgaaaatcta  ccgagctgag  gacatcccc  agatggatga  tgccttctca  1260
cagacagtaa  aggaaatatt  tggaggcaat  gcagataaga  aaaatctcgt  ggatcctttt  1320
gtagaaatgt  cctttgctgg  aaaaaagggt  tgtacaaaca  taattgagaa  aaatgcaaac  1380
ccagagtgg  atcaggctgt  caatcttcag  atcaagtttc  cttcagtgtg  tgaaaaata  1440
aaactaaca  tatatgactg  ggaccgtctt  actaaaaatg  atgtagtgtg  aacaacatat  1500
ctacacctct  ctaaaattgc  tgcctctggt  ggggaagtgg  aagatttctc  atcttcggga  1560
actggggctg  catcatatac  agtaaacaca  ggagaaacag  aggtaggctt  tgttccaacg  1620
tttgaccctt  gttacctgaa  tctttatgga  agcccagag  agtacacggg  attcccagac  1680
ccctatgatg  agctgaatac  tggaaagggg  gaaggagtgt  cctacagagg  caggatcttg  1740
gttgaaatag  ccacttttct  tgagaagaca  ccaccagata  aaaagcttga  gccatttca  1800
aatgatgacc  tgctggttgt  tgagaaatac  cagcgaaggc  ggaagtacag  cctgtctgcc  1860
gtgtttcatt  cagccaccat  gttgcaagat  gttggtgagg  ccattcagtt  tgaagtccag  1920
attgggaact  atggaacaa  gtttgacacc  acctgtaagc  ctttggcatc  aacaactcag  1980
tacagccgtg  ctgtatttga  tggcaactac  tattattact  tgccttgggc  ccacaccaag  2040
ccagtgttta  cctgacttcc  atactgggag  gatattagtc  atcgcttga  tgcggtgaac  2100
actctcttag  ctatggcaga  acggctgcaa  acaaatatag  aagctctaaa  atcagggata  2160
caaggtaaaa  ttcctgcaaa  ccagctggct  gaattgtggc  tgaagctgat  agatgaagtt  2220
atagaagaca  cgagatacac  gttgcctctc  acagaaggaa  aagccaacgt  cacagttctc  2280
gatactcaga  tccgaaagct  ggggtccagg  tctctctccc  aaatacatga  ggcggtgtg  2340
aggatgaggt  cggaaagcac  agatgtgaag  tccacactgg  cagaaattga  ggactggctt  2400
gataaattaa  tgcagctgac  tgaagagcca  cagaacagca  tgcttgacat  catcatctgg  2460
atgatccggg  gagagaagag  actggcctat  gcacgaattc  ccgcacatca  ggtcttgtag  2520
tccaccagt  gtgagaatgc  atctggaaaa  tactgtggga  aaacccaaac  catctttctg  2580
aagtatccac  aggagaaaaa  caacgggcca  aaggtgcctg  tggagtgtcg  agtgaacatc  2640
tggctaggct  taagtgtgt  ggagaagaag  tttaacagct  tcgcagaagg  aactttcacc  2700
gtctttgctg  aaatgtatga  aaatcaagct  ctcatgtttg  gaaaatgggg  tacttctgga  2760
ttagtaggac  gtcataagtt  ttctgatgtc  acaggaaaaa  taaaactcaa  gagggaattt  2820
tttctgcctc  caaaaggctg  ggaatgggaa  ggagagtgg  tagttgatcc  tgaaagaagc  2880
ttgtgactg  aggcagatgc  aggtcacacg  gagttcactg  atgaagtcta  tcagaacgag  2940
agccgctacc  ccgggggcga  ctggaagccg  gccgaggaca  cctacacgga  tgcgaacggc  3000
gataaagcag  catcaccag  cgagttgact  tgtcctccag  gttgggaatg  ggaagatgat  3060
gcatgggtct  atgacataaa  tcgagtgtgt  gatgagaaag  gctgggaata  tggaatcacc  3120
attcctcctg  atcataagcc  caaatcctgg  gttgcagcag  agaaaatgta  ccacactcat  3180
agacggcgaa  ggtgtgtccg  aaaacgcaag  aaagatttaa  cacagactgc  ttcaagcacc  3240
gcaagggcca  tggaggaatt  gcaagacca  gagggctggg  aatatgcttc  tctaattggc  3300
tggaaatttc  actggaaaca  acgtagttca  gatccctcc  gccgcagacg  ctggaggaga  3360
aaaatggctc  cttcagaaac  acatgggtga  gctgccatct  ttaaacttga  aggtgccctt  3420
ggggcagaca  ctaccgaaga  tggggatgag  aagagcctgg  agaaacagaa  gcacagtgcc  3480
accactgtgt  tcggagcaaa  caccgccatt  gtttcctgca  attttgacag  agtctacatc  3540

```



```

taccatctgc gctgctatgt ctatcaagcc agaaacctct tggctttaga taaggatagc 3600
ttttcagatc catatgctca tatctgtttc ctccatcgga gcaaaaccac tgagatcatc 3660
cattcaaccc tgaatcccac gtgggaccaa acaattatat tcgatgaagt tgaaatctat 3720
ggggaacccc aaacagttct acagaatcca ccaaagttta tcatggaact ttttgacaat 3780
gaccaagtgg gcaaagatga attttttagga cgaagcattt tctctcctgt ggtgaaactg 3840
aactcagaaa tggacatcac acccaaactt ctctggcacc cagtaatgaa tggagacaaa 3900
gcctgcgggg atgttcttgt aactgcagag ctgattctga ggggcaagga tggctccaac 3960
cttcccattc tttcccctca aagggcgcca aatctataca tgggtcccca ggggatcagg 4020
cctgtggtcc agctcactgc cattgagatt ctagtctggg gcttaagaaa tatgaaaaac 4080
ttccagatgg cttctatcac atccccagt cttgttgtgg agtgtggagg agaaaggggtg 4140
gaatcggtgg tgatcaaaaa ccttaagaag acaccaact tccaagttc tgttctcttc 4200
atgaaagtgt tcttgcccaa ggaggaattg tacatgcccc cactggtgat caaggtcatc 4260
gaccacaggc agtttgggcg gaagcctgtc gtcggccagt gcaccatcga gcgcctggac 4320
cgctttcgct gtgaccccta tgcagggaaa gaggacatcg tcccacagct caaagcctcc 4380
cttctgtctg ccccaccatg ccgggacatc gttatcgaaa tgggaagacac caaacatta 4440
ctggcttcta agctgacaga aaaggaggaa gaaatcgtgg actggtggag taaattttat 4500
gcttcctcag gggaaacatga aaaatgcgga cagtatatctc agaaaggcta ttccaagctc 4560
aagatatata attgtgaact agaaaatgta gcagaatttg agggcctgac agacttctca 4620
gatacgttca agttgtaccg aggcaagtgc gatgaaaatg aagatccttc tgtggttggg 4680
gagtttaagg gctcctttcg gatctaccct ctgccggatg accccagcgt gccagcccct 4740
cccagacagt ttcgggaatt acctgacagc gtcccacagg aatgcacggt taggatttac 4800
attgttcgag gcttagagct ccagccccag gacaacaatg gctgtgtga ccttacata 4860
aaaataacac tgggcaaaaa agtcattgaa gaccgagatc actacattcc caacactctc 4920
aaccagtcct ttggcaggat gtacgaactg agctgctact tacctcaaga aaaagacctg 4980
aaaatttctg tctatgatta tgacaccttt acccgggatg aaaaagtagg agaacaatt 5040
attgatctgg aaaaccgatt cctttccgcg tttgggtccc actgcggcat accagaggag 5100
tactgtgttt ctggagtcaa tacctggcga gatcaactga gaccaacaca gctgcttcaa 5160
aatgtcgcca gattcaaagg cttcccacaa cccatccttt ccgaagatgg gagtagaatc 5220
agatatggag gacgagacta cagcttggat gacattgaa ccaacaaaat cctgcaccag 5280
cacctcgggg cccctgaaga gcggttgcct cttcacatcc tcaggaactca ggggctggtc 5340
cctgagcacg tggaaacaag gactttgcac agcaccttcc agcccaacat ttcccaggga 5400
aaacttcaga tgtgggtgga tgttttcccc aagagtttgg ggccaccagg cctccttttc 5460
aacatcacac cccggaaagc caagaaatac tacctgcgtg tgatcatctg gaacaccaag 5520
gacgttatct tggacgagaa aagcatcaca ggagaggaaa tgagtacat ctacgtcaaa 5580
ggctggattc ctggcaatga agaaaacaa cagaaaacag atgtccatta cagatctttg 5640
gatgttgag ggaattttta cggcgattt gttttccgt ttgactacct tccagccgaa 5700
caactctgta tctgtgcgaa aaaagagcat ttctggagta ttgacaaaac ggaatttcga 5760
atcccacca ggctgatcat tcagatatgg gacaatgaca agttttctct ggatgactac 5820
ttgggtttcc tagaacttga cttgcgtcac acgatcattc ctgcaaaatc accagagaaa 5880
tgcaggttgg acatgattcc ggacctcaaa gccatgaacc cctttaaagc caagacagcc 5940
tccctctttg agcagaagtc catgaaagga tgggtggccat gctacgcaga gaaagatggc 6000
gcccgcgtaa tggctgggaa agtggagatg acattggaaa tcctcaacga gaaggaggcc 6060
gacgagaggc cagccgggaa ggggcgggac gaacccaaca tgaaccccaa gctggactta 6120
ccaaatcgac cagaaacctc cttcctctgg ttaccaacc catgcaagac catgaagttc 6180
atcgtgtggc gccgctttta gtgggtcatc atcggcttgc tgttcctgct tatcctgctg 6240
ctcttcgtgg ccgtgctcct ctactctttg ccgaactatt tgtcaatgaa gattgtaaag 6300
ccaaatgtgt aacaaaggca aaggcttcat ttccagagtc atccagcaat gagagaatcc 6360
tgctctgtta gaccaacatc cagtgtgatt ttgtgtctga gaccacaccc cagtagcagg 6420
ttacgccatg tcaccgagcc ccattgattc ccagagggtc ttagtctctg aaagtcaggc 6480
caacaagcaa cgtttgcac atgttatctc ttaagtatta aaagttttat tttctaaagt 6540
ttaaatacatg tttttcaaaa tatttttcaa ggtggctggg tccattttaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttgaaaat tgctaaatag aattcaaaaa 6660
tctctgcac ctgaggtgat atacttcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tagaatagtt agaacaattc ttatttatgc ccacaacat tgctatattt 6780
tgtatggatg tcataaaagt ctatttaacc tctgtaatga aactaaataa aaatgtttca 6840
cctttaaaaa aaaaaaaaaa aaaaaagggg gggccgaacc caatcgcta ttggaggggt 6900
atccaaataa tggccgcttt acannnn 6927

```

<210> 939

<211> 636

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(636)

<223> n = A,T,C or G

<400> 939

```

tcctataggg aatttggccc tcgaggccaa gaattcggca cgagggggat tctgctcatg 60
tttcttcttg acctcttgca taatcttttt gttttctaga cagttcacta attggtgaat 120
tttactgtat attcatataa aaatgcaaac gtactagacc agtggagaat ttgacacctt 180
ttctttttgt aaaagtttat ggtattatac cgatagacca aaacagcatg tgtaagaggc 240
agtatctgca ctaattctca acatgctaaa cattaactac aattcactgt tgtgagaata 300
ttcctcgta cagcaaaaac actttccttt ctactgacaa ccagtcctcc acatcacagc 360
atthagacat atgggtaaaa tgttatttct agtgaattgt ttgtatcagt ttcattgtcta 420
agtataaatt ttctatttta aaatttaaga accgtttata atcagtgcct tcccaactct 480
tgggttgctc tcataacta tgtattttgt aaagaaaatg gtcatttttt ttactgaag 540
tcatataatg acttgggtca gctcgtaatg cattgtgatg gttttgtatg agctgggtgt 600
ttttttccat tacttttaat gatcttcgtt gcaagn 636

```

<210> 940

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 940

```

cgacccacgc gtccgatcct cccttcactg ggcaogagct tctctcccag ggcggtgcga 60
cccggagctc cagcgcccga gtctccactt cgtttgctga aacttgcttt ctaccagcta 120
agaacctgac tgcgagtgat tgtggaatct gccagcaata tccctaaaac gaaatttggc 180
aagccggaac ctattgtttt tgtcattttt aaggatgaga aaaagaaaac aaagaaagt 240
gataatgaat tgaaccctgt ctggaatgag attttggagt ttgacttgag gggatacca 300
ctggactttt catcttccct tgggattatt gtgaaagatt ttgagacaat tggacaaaat 360
aaattaattg gcacggcgac tgtagccctg aaggacctga ctggtgacca gagcagatcc 420
ctgcccgtaca agctgatctc cctgctaaat gaaaaagggc aagatactgg ggccaccatt 480
gacttggtga tcggctatga tccgccttct gctccacatc caaatgacct gagcggggcc 540
agcgtgccag gcatgggagg agatggggaa gaagatgaag gtgatgaaga cagggttgga 600
aatgcagta cggggccctgg gcccaagggg ccagttggga cgggtgcgga agctcagct 660
gctcggaggc tcaccaaagt aaagaacagc cggcggatgc tgtcaaataa gccacaggt 720
ttccagatcc ggcgtccagt gattgagggc cgacagttaa gtggtaacaa cataaggcct 780
gtggtcaaag ttacagtctg tggccagaca caccgaacaa gaatcaagag aggaacaac 840
cctttttttg atgagttgtt tttctacaat gtcaacatga ccccttctga attgatggat 900
gagatcatca gcatccgggt ttataattct cactctctgc ggcagattg tctgatggg 960
gaatttaaga ttgatgttgg atttgtttat gatgaacctg gccatgctgt catgagaaa 1020
tggcttcttc tcaatgacct ggaagatacc agttcaggtt ctaaaggtta tatgaaagt 1080
agcatgttgg tccctgggaac cggagatgag cctcctcctg agagacgaga tcgtgataat 1140
gacagtgatg atgtggagag taatttgtta ctccctgctg gcattgccct ccggtgggtg 1200
accttcttgc tgaaaatcta ccgagctgag gacatcccc agatggatga tgccttctca 1260
cagacagtaa aggaatatt tggaggcaat gcagataaga aaaatctcgt ggatcctttt 1320
gtagaagttt cctttgctgg aaaaaagggt tgtacaaaca taattgagaa aaatgcaaac 1380
ccagagtgga atcaggtcgt caatcttcag atcaagtttc cttcagtgtg tgaaaaata 1440
aaactaacia tatatgactg ggaccgtctt actaaaaatg atgtagttgg aacaacatat 1500
ctacacctct ctaaaattgc tgcctctggt ggggaagtgg aagatttctc atcttcggga 1560
actggggctg catcatatac agtaaacaca ggagaaacag aggtaggctt tgttccaacg 1620
tttgacactt gttacctgaa tctttatgga agccccagag agtacacggg attcccagac 1680
ccctatgatg agctgaatac tggaaagggg gaaggagttg cctacagagg caggatcttg 1740
gttgaattag ccacttttct tgagaagaca ccaccagata aaaagcttga gccatttca 1800

```

aatgatgacc	tgctggttgt	tgagaaatac	cagcgaaggc	ggaagtacag	cctgtctgcc	1860
gtgtttcatt	cagccaccat	gttgcaagat	gttggtgagg	ccattcagtt	tgaagtcagc	1920
attgggaact	atggcaacaa	gtttgacacc	acctgtaagc	ctttggcatc	aacaactcag	1980
tacagccgtg	ctgtatttga	tggcaactac	tattattact	tgccctgggc	ccacaccaag	2040
ccagttgtta	ccctgacttc	atactgggag	gatattagtc	atcgctgga	tcggtgaac	2100
actctcctag	ctatggcaga	acggctgcaa	acaaatatag	aagctctaaa	atcaggata	2160
caaggtaaaa	ttcctgcaaa	ccagctggct	gaattgtggc	tgaagctgat	agatgaagtt	2220
atagaagaca	cgagatacac	gttgcccttc	acagaaggaa	aagccaacgt	cacagttctc	2280
gatactcaga	tccgaaagct	gcggtccagg	tctctctccc	aaatacatga	ggcggtgtg	2340
aggatgaggt	cggaagccac	agatgtgaag	tccacactgg	cagaaattga	ggactggctt	2400
gataaattaa	tgcagctgac	tgaagagcca	cagaacagca	tgcctgacat	catcatctgg	2460
atgatccggg	gagagaagag	actggcctat	gcacgaattc	ccgcacatca	ggtcttgtac	2520
tccaccagtg	gtgagaatgc	atctggaaaa	tactgtggga	aaacccaaac	catctttctg	2580
aagtatccac	agggaaaaa	caacgggcca	aagggtgcctg	tggagttgcg	agtgaacatt	2640
tggctaggct	taagtgtgt	ggagaagaag	tttaacagct	tcgcagaagg	aactttcacc	2700
gtctttgtctg	aaatgtatga	aaatcaagct	ctcatgtttg	gaaaatgggg	tacttctgga	2760
ttagtaggac	gtcataagtt	ttctgatgtc	acaggaaaaa	taaaactcaa	gagggaattt	2820
tttctgcctc	caaaaggctg	ggaatgggaa	ggagagtggg	tagttgatcc	tgaaagaagc	2880
ttgctgactg	aggcagatgc	aggtcacacg	gagttcactg	atgaagtcta	tcagaacgag	2940
agccgctacc	ccgggggcga	ctggaagccg	gccgaggaca	cctacacgga	tcggaacggc	3000
gataaagcag	catcaccacg	cgagttgact	tgtcctccag	gttggaatg	ggaagatgat	3060
gcattggtctt	atgacataaa	tcgagtgggt	gatgagaaa	gctgggaata	tggaatcacc	3120
attcctcctg	atcataagcc	caaatcctgg	gttgacgacg	agaaaatgta	ccacactcat	3180
agacggcgaa	ggctggtccg	aaaacgcaag	aaagatttaa	cacagactgc	ttcaagcacc	3240
gcaagggcca	tggaggaatt	gcaagaccaa	gagggctggg	aatatgcttc	tctaattggc	3300
tggaaatttc	actggaacaa	acgtagtcca	gataccttcc	gccgcagacg	ctggaggaga	3360
aaaatggctc	cttcagaaac	acatggtgca	gctgccatct	ttaaacttga	aggtgccctt	3420
ggggcgagaca	ctaccgaaga	tggggatgag	aagagcctgg	agaaacagaa	gcacagtgcc	3480
accactgtgt	tcggagcaaa	cacccccatt	gtttcctgca	attttgacag	agtctacacc	3540
taccatctgc	gctgctatgt	ctatcaagcc	agaaacctct	tggctttaga	taaggatagc	3600
ttttcagatc	catatgctca	tatctgtttc	ctccatcgga	gcaaaaccac	tgagatcatc	3660
cattcaaccc	tgaatccac	gtgggaccaa	acaattatat	tcgatgaagt	tgaaatctat	3720
ggggaacccc	aaacagttct	acagaatcca	cccaaagtta	tcatggaact	ttttgacaat	3780
gaccaagtgg	gcaaagatga	attttttagga	cgaagcattt	tctctcctgt	ggtgaaactg	3840
aactcgaaaa	tggacatcac	accocaaact	ctctggcacc	cagtaatgaa	tggagacaaa	3900
gcctgcgggg	atgttcttgt	aactgcagag	ctgattctga	ggggcaagga	tggctccaac	3960
cttcccatc	ttccccctca	aagggcgcca	aatctataca	tggctcccca	ggggatcagg	4020
cctgtggtcc	agctcactgc	cattgagatt	ctagcttggg	gcttaagaaa	tatgaaaaac	4080
ttccagatgg	cttctatcac	atccccagt	cttgttgtgg	agtgtggagg	agaaaggggtg	4140
gaatcggtgg	tgatcaaaaa	ccttaagaag	acaoccaaact	ttccaagttc	tgttctcttc	4200
atgaaagtgt	tcttgcccaa	ggaggaattg	tacatgcccc	cactggtgat	caaggctcatc	4260
gaccacaggc	agtttggcg	gaagcctgtc	gtcggccagt	gcaccatcga	gcgcctggac	4320
cgctttcgct	gtgaccctta	tgcagggaag	gaggacatcg	tccacagct	caaagccctc	4380
cttctgtctg	ccccaccatg	ccgggacatc	gttatcgaaa	tggagagacac	caaaccatta	4440
ctggcttcta	agctgacaga	aaaggaggaa	gaaatcgtgg	actggtggag	taaattttat	4500
gcttctcag	gggaacatga	aaaatgcgga	cagtatatcc	agaaaggcta	ttccaagctc	4560
aagatatata	attgtgaact	agaaaatgta	gcagaatttg	agggcctgac	agacttctca	4620
gatacgttca	agttgtaccg	aggcaagtgc	gatgaaaatg	aagatccttc	tgtggttggg	4680
gagtttaagg	gctcctttcg	gatctaccct	ctgcgggatg	accccgagct	gccagcccct	4740
ccagacagtg	ttcgggaatt	acctgacagc	gtcccacagg	aatgcacggt	taggatttac	4800
attgttcgag	gcttagagct	ccagccccag	gacaacaatg	gcctgtgtga	cccttacata	4860
aaaataacac	tgggcaaaaa	agtcattgaa	gaccgagatc	actacattcc	caacactctc	4920
aaccagctct	ttggcaggat	gtacgaactg	agctgctact	tacctcaaga	aaaagacctg	4980
aaaatttctg	tctatgatta	tgacaccttt	accgggatg	aaaaagtagg	agaaacaatt	5040
attgatctgg	aaaaccgatt	cctttcccg	tttgggtccc	actgcggcat	accagaggag	5100
tactgtgttt	ctggagtcaa	tacctggcga	gatcaactga	gaccaacaca	gctgcttcaa	5160
aatgtcgcca	gattcaaagg	cttcccacaa	cccatccttt	ccgaagatgg	gagtagaatt	5220
agatatggag	gacgagacta	cagcttggat	gaatttgaag	ccaacaaaat	cctgcaccag	5280
cacctcgggg	cccctgaaga	gcggttgct	cttcacatcc	tcaggactca	ggggctggtc	5340
cctgagcacg	tggaaacaag	gactttgcac	agcaccttcc	agcccaacat	ttcccaggga	5400
aaacttcaga	tgtgggtgga	tgttttcccc	aagagtttgg	ggccaccagg	ccctcctttc	5460

```

aacatcacac cccggaaagc caagaaatac tacctgcgtg tgatcatctg gaacaccaag 5520
gacgttatct tggacgagaa aagcatcaca ggagaggaaa tgagtgcacat ctacgtcaaa 5580
ggctggattc ctggcaatga agaaaacaaa cagaaaacag atgtccatta cagatctttg 5640
gatggtgaag ggaattttta ctggcgattt gttttcccgt ttgactacct tccagccgaa 5700
caactctgta tcgttgcgaa aaaagagcat ttctggagta ttgaccaaac ggaatttcga 5760
atcccaccca ggctgatcat tcagatatgg gacaatgaca agttttctct ggatgactac 5820
ttgggtttcc tagaacttga cttagcgtcac acgatcattc ctgcaaaatc accagagaaa 5880
tgcaggttgg acatgattcc ggacctcaaa gccatgaacc cccttaaagc caagacagcc 5940
tccctctttg agcagaagtc catgaaagga tgggtggccat gctacgcaga gaaagatggc 6000
gcccgcgtaa tggctgggaa agtggagatg acattggaaa tcctcaacga gaaggaggcc 6060
gacgagaggg cagccgggaa ggggcgggac gaacccaaca tgaaccccaa gctggactta 6120
ccaaatcgac cagaaacctc ctctctctgg ttaccaacc catgcaagac catgaagttc 6180
atcgtgtggc gccgctttta gtgggtcatc atcggcttgc tgttcctgct tatcctgctg 6240
ctctctctgg ccgtgctcct ctactctttg cogaactatt tgtcaatgaa gattgtaaac 6300
ccaaatgtgt aacaaaggca aaggcttcat ttccagagtc atccagcaat gagagaatcc 6360
tgcctctgta gaccaacatc cagtgtgatt ttgtgtctga gaccacaccc cagtagcagg 6420
ttacgccatg tcaccgagcc ccattgattc ccagagggtc ttagtcctgg aaagtcaggc 6480
caacaagcaa cgtttgcatc atgttatctc ttaagtatta aaagttttat tttctaaagt 6540
ttaaatacatg tttttcaaaa tatttttcaa ggtggctggg tccattttaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttggaat tgctaaatag aattcaaaaa 6660
tctctgcacg ctgaggtgat atacttcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tagaatagtt agaacaattc ttatttatgc ccacaacct tgctataatt 6780
tgtatggatg tcataaaagt ctatttaacc tctgtaatga aactaaataa aaatgtttca 6840
cctttaaaaa aaaaaaaaaa aaaaaagggg gggccgaacc caatcgcta ttggaggggt 6900
atccaaataa tggccgcttt acannnn 6927

```

<210> 941

<211> 6927

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(6927)

<223> n = A,T,C or G

<400> 941

```

cgacccacgc gtccgatcct cccttcactg ggcacgagct tctctcccag ggcggtgcga 60
cccggagctc cagcgcccga gtctccactt cgtttgctga aacttgcttt ctaccagcta 120
agaaccatgc tgcgagtgat tgtggaatct gccagcaata tccctaaaaac gaaatttggc 180
aagccggatc ctattgtttc tgtcattttt aaggatgaga aaaagaaaaac aaagaaagtt 240
gataatgaat tgaaccctgt ctggaatgag attttgaggt ttgacttgag ggtataacca 300
ctggactttt catcttccct tgggattatt tggaaagatt ttgagacaat tggacaaaat 360
aaattaattg gcacggcgac tgtagccctg aaggacctga ctggtgacca gagcagatcc 420
ctgccgtaca agctgatctc cctgctaaat gaaaaagggc aagatactgg ggccaccatt 480
gacttggtga tcggtatga tccgccttct gctccacatc caaatgacct gagcgggccc 540
agcgtgccag gcatgggagg agatggggaa gaagatgaag gtgatgaaga caggttggac 600
aatgcagtca ggggccctgg gcccaagggg ccagttggga cgggtgctgga agctcagctt 660
gctcgaggcg tcaccaaagt aaagaacagc cggcggatgc tgtcaaataa gccacaggac 720
ttccagatcc gcgtccgagt gattgaggcg cgacagttaa gtggttaacaa cataaggcct 780
gtggtcaaaag ttcacgtctg tggccagaca caccgaacaa gaatcaagag aggaacaaac 840
cctttttttg atgagttgtt tttctacaat gtcaacatga ccccttctga attgatggat 900
gagatcatca gcatccgggt ttataattct cactctctgc gggcagattg tctgatgggg 960
gaatttaaga ttgatgttgg atttgtttat gatgaacctg gccatgctgt catgagaaag 1020
tggcttcttc tcaatgaccc ggaagatacc agttcagggt ctaaagggtta tatgaaagtc 1080
agcagtgttg tcctgggaac cggagatgag cctcctcctg agagacgaga tcgtgataat 1140
gacagtgatg atgtggagag taatttggtta ctccctgctg gcattgccct ccggtgggtg 1200
accttcttgc tgaaaatcta ccgagctgag gacatccccc agatggatga tgccttctca 1260
cagacagtaa aggaaatatt tggaggcaat gcagataaga aaaatctcgt ggatcctttt 1320
gtagaagttt cctttgctgg aaaaaaggtt tgtacaaaca taattgagaa aaatgcaaac 1380
ccagagtggg atcaggtcgt caatcttcag atcaagtttc cttcagtggt tgaaaaataa 1440

```

aaactaaca	tatatgactg	ggaccgtctt	actaaaaatg	atgtagttgg	aacaacatat	1500
ctacacctct	ctaaaattgc	tgccctctgg	ggggaagtgg	aagattttctc	atcttcggga	1560
actggggctg	catcatatac	agtaaacaca	ggagaaacag	aggtaggctt	tgttccaacg	1620
tttgaccctt	gttacctgaa	tctttatgga	agccccagag	agtacacggg	attcccagac	1680
ccctatgatg	agctgaatac	tggaagggg	gaaggagtgg	cctacagagg	caggatcttg	1740
gttgaattag	ccacttttct	tgagaagaca	ccaccagata	aaaagcttga	gcccatttca	1800
aatgatgacc	tgctggttgt	tgagaaatac	cagcgaaggc	ggaagtacag	cctgtctgcc	1860
gtgtttcatt	cagccaccat	gttgcaagat	gttggtgagg	ccattcagtt	tgaagtcagc	1920
attgggaact	atggcaacaa	gtttgacacc	acctgtaagc	ctttggcatc	aacaactcag	1980
tacagccgtg	ctgtatttga	tggaactac	tattattact	tgccctgggc	ccacaccaag	2040
ccagttgtta	ccctgacttc	atactgggag	gatattagtc	atcgccctgga	tgcggtgaac	2100
actctcctag	ctatggcaga	acggctgcaa	acaaatatag	aagctctaaa	atcagggata	2160
caaggtaaaa	ttcctgcaaa	ccagctggct	gaattgtggc	tgaagctgat	agatgaagtt	2220
atagatgaca	ttgcctctc	gttgccctc	cagcaaggaa	aagccaacgt	cacagttctc	2280
gatactcaga	tccgaaagct	gcggtccagg	tctctctccc	aaatacatga	ggcggctgtg	2340
aggatgaggt	cgggaagccac	agatgtgaag	tccacactgg	cagaaattga	ggactggctt	2400
gataaattaa	tcagctgac	tgaagagcca	cagaacagca	tgccctgacat	catcatctgg	2460
atgatccggg	gagagaagag	actggcctat	gcacgaattc	ccgcacatca	ggtcttgtac	2520
tccaccagtg	gtgagaatgc	atctggaaaa	tactgtggga	aaacccaaac	catctttctg	2580
aagtatccac	aggagaaaaa	caacggggcca	aaggtgcctg	tgaggttgcg	agtgaacatc	2640
tggctaggct	taagtgtctg	ggagaagaag	tttaacagct	tcgcagaagg	aactttcacc	2700
gtctttgctg	aaatgtatga	aaatcaagct	ctcatgtttg	gaaaatgggg	tacttctgga	2760
ttagtaggac	gtcataagtt	ttctgatgtc	acaggaaaaa	taaaactcaa	gagggaaatt	2820
tttctgcctc	caaaaggctg	ggaatgggaa	ggagagtggg	tagttgatcc	tgaagaagc	2880
ttgctgactg	aggcagatgc	aggtcacacg	gagttcactg	atgaagtcta	tcagaacgag	2940
agccgctacc	ccgggggcga	ctggaagccg	gccgaggaca	cctacacgga	tgccaacggc	3000
gataaagcag	catcacccag	cgagttgact	tgccctccag	gttggaatg	ggaagatgat	3060
gcattggtct	atgacataaa	tcgagtgggt	gatgagaaag	gctgggaata	tggaatcacc	3120
attcctcctg	atcataagcc	caaatcctgg	gttgccagcag	agaaaatgta	ccacactcat	3180
agacggcgaa	ggctggtccg	aaaacgcaag	aaagatttaa	cacagactgc	ttcaagcacc	3240
gcaagggcca	tggaggaatt	gcaagaccaa	gagggctggg	aatatgcttc	tctaattggc	3300
tggaaatttc	actggaaaca	acgtagttca	gataccttcc	gccgcagaag	ctggaggaga	3360
aaaatggctc	cttcagaaac	acatggtgca	gctgccatct	ttaaacttga	aggtgccctt	3420
ggggcagaca	ctaccgaaga	tggggatgag	aagagcctgg	agaaacagaa	gcacagtgcc	3480
accactgtgt	tggagcaaaa	cacccccatt	gtttcctgca	attttgacag	agtctacatc	3540
taccatgctg	ctgtctatgt	ctatcaagcc	agaaacctct	tggctttaga	taaggatagc	3600
ttttcagatc	catatgctca	tatctgtttc	ctccatcgga	gcaaaaccac	tgagatcatc	3660
cattcaaccc	tgaatccac	gtgggaccaa	acaattatat	tcgatgaagt	tgaatctat	3720
ggggaacccc	aaacagttct	acagaatcca	cccaaagtta	tcatggaact	ttttgacaat	3780
gaccaagtgg	gcaaagatga	attttttagga	cgaagcattt	tctctcctgt	ggtgaaactg	3840
aactcagaaa	tggacatcac	acccaaactt	ctctggcacc	cagtaatgaa	tggagacaaa	3900
gcctgcgggg	atgttcttgt	aactgcagag	ctgattctga	ggggcaagga	tggctccaac	3960
cttcccattc	ttccccctca	aagggcgcca	aatctataca	tggcccccca	ggggatcagg	4020
cctgtggtcc	agctcactgc	cattgagatt	ctagcttggg	gcttaagaaa	tatgaaaaac	4080
ttccagatgg	cttctatcac	atccccagct	cttgttgtgg	agtgtggagg	agaaaggggtg	4140
gaatcggtgg	tgatcaaaaa	ccttaagaag	acacccaact	ttccaagttc	tgttctcttc	4200
atgaaagtgt	tcttgcccaa	ggaggaattg	tacatgcccc	cactggtgat	caaggtcatc	4260
gaccacaggc	agtttgggcg	gaagcctgtc	gtcggccagt	gcaccatcga	gcgcctggac	4320
cgctttcgct	gtgaccctta	tgcaaggaaa	gaggacatcg	tcccacagct	caaagcctcc	4380
cttctgtctg	cccaccatg	ccgggacatc	gttatcgaaa	tggaagacac	caaaccatta	4440
ctggcttcta	agctgacaga	aaaggaggaa	gaaatcgtgg	actggtggag	taaattttat	4500
gcttctctcag	gggaacatga	aaaatgcgga	cagtatatctc	agaaaggcta	ttccaagctc	4560
aagatatata	attgtgaact	agaaaatgta	gcagaatttg	agggcctgac	agacttctca	4620
gatacgttca	agttgtaccg	aggcaagtcg	gatgaaaatg	aagatccttc	tgtggttgga	4680
gagtttaagg	gctcctttcg	gatctaccct	ctgccggatg	acccacagct	gccagcccct	4740
cccagacagt	ttcggaatt	acctgacagc	gtcccacagg	aatgcacggg	taggatttac	4800
attgttcgag	gcttagagct	ccagccccag	gacaacaatg	gcctgtgtga	cccttacata	4860
aaaataacac	tgggcaaaaa	agtcattgaa	gaccgagatc	actacattcc	caacactctc	4920
aaccagctct	ttggcaggat	gtacgaactg	agctgctact	tacctcaaga	aaaagacctg	4980
aaaatttctg	tctatgatta	tgacaccttt	acccgggatg	aaaaagtagg	agaaacaatt	5040
attgatctgg	aaaaccgatt	cctttcccg	tttgggtccc	actgcggcat	accagaggag	5100

```

tactgtgttt ctggagtcaa tacctggcga gatcaactga gaccaacaca gctgcttcaa 5160
aatgtcgcca gattcaaagg cttcccacaa cccatccttt ccgaagatgg gagtagaatc 5220
agatatggag gacgagacta cagcttggtat gaatttgaag ccaacaaaat cctgcaccag 5280
cacctcgggg cccctgaaga gcggttggtt cttcacatcc tcaggactca ggggctgggtc 5340
cctgagcacg tggaaacaag gactttgcac agcaccttcc agcccaacat ttcccaggga 5400
aaacttcaga tgtgggtgga tgttttccc aagagtttgg ggccaccagg ccctcctttc 5460
aacatcacac cccggaagc caagaaatc tacctgcgtg tgatcatctg gaacaccaag 5520
gacgttatct tggacgagaa aagcatcaca ggagaggaaa tgagtacat ctacgtcaaa 5580
ggctggattc ctggcaatga agaaaacaaa cagaaaacag atgtccatta cagatctttg 5640
gatggtgaag ggaattttta ctggcgattt gttttccgt ttgactacct tccagccgaa 5700
caactctgta tcgttgcgaa aaaagagcat ttctggagta ttgaccaaac ggaatttcga 5760
atcccccca ggctgatcat tcagatatgg gacaatgaca agttttctct ggatgactac 5820
ttgggtttcc tagaacttga cttgcgtcac acgatcattc ctgcaaaatc accagagaaa 5880
tgcaggttgg acatgattcc ggacctcaaa gccatgaacc cccttaaagc caagacagcc 5940
tccctctttg agcagaagtc catgaaagga tgggtggccat gctacgcaga gaaagatggc 6000
gccccgctaa tggctgggaa agtggagatg acattggaaa tcctcaacga gaaggaggcc 6060
gacgagaggc cagccgggaa gggcggggac gaacccaaca tgaaccccaa gctggactta 6120
ccaaatcgac cagaaacctc cttcctctgg ttcaccaacc catgcaagac catgaagttc 6180
atcgtgtggc gccgctttta gtgggtcatc atcggttgc tgttctctgt tatcctgtctg 6240
ctcttctgtg ccgtgctcct ctactctttg ccgaactatt tgtcaatgaa gattgtaaag 6300
ccaaatgtgt aacaaaggca aaggcttcat ttccagagtc atccagcaat gagagaatcc 6360
tgcctctgta gaccaacatc cagtgtgatt ttgtgtctga gaccacccc cagtagcagg 6420
ttacgccatg tcaccgagcc ccattgattc ccagagggtc ttagtcctgg aaagtcaggc 6480
caacaagcaa cgtttgcac atgttatctc ttaagtatta aaagttttat tttctaaagt 6540
ttaaatcatg tttttcaaaa tatttttcaa ggtggctggg tccattttaa aatcatcttt 6600
ttatatgtgt cttcggttct agacttcagc ttttgaaaat tgctaaatag aattcaaaaa 6660
tctctgcac ctgaggtgat ataactcata tttgtaatca actgaaagag ctgtgcatta 6720
taaaatcagt tagaatagtt agaacaattc ttatttatgc ccacaacct tgctatatatt 6780
tgtatggatg tcataaaaagt ctatttaacc tctgtaatga aactaaataa aatggtttca 6840
cctttaaaaa aaaaaaaa aaaaaagggg gggccgaacc caatcgcta ttggaggggg 6900
atccaaataa tggccgcttt acannnn 6927

```

<210> 942

<211> 1727

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1727)

<223> n = A,T,C or G

<400> 942

```

nnnnnnnnaa aaattgtccg tgtaaaagtc aggattcctt tatattgggtg agcctccttt 60
tctcctttcc taaggatgta atctacagtt ttcagatctg cagggtagtc ttgattggct 120
aaaaacaaat caattttctt cttggcataa agtgtttcat tattataggg gtgttcattt 180
taaatagttt aaaaacaatt gcagcacatt ctaagcataa gagaaagtta ttgacaacag 240
gtaccttcct aatctcccaa gacgtactta ctcatctgtg aagtattaaa gtaagaggta 300
actcaagcag aatgctggct atgaatgtag atattgaagc tattcataaa cactggaaat 360
agaattttta gcttttagcc ttcagtggaa tgcacatatt ggacatgtgc atgtgaacac 420
ctttttcagt agcactcacg gattttccatt cgattgtata gaatgaatac aagtgtttta 480
gtggaatttg ctacttaatt tttaatcttg cgatgtcctg gattattaca tgcttactag 540
tgttgtggac attgaagaca aggtcattcg taggtgtcag attacaatgg agaacaaaaa 600
tcgttttccc cccaccaca tccaaacacc attctcgagc gagcatttct tgcaaaacac 660
cttacatttc attttctatc tttgcacttt ttcttaagta cagaaaagtt gtctttaaga 720
cctagtttga acttcatgca gtaagaggaa caaggataaa caatgttggg agttcacatt 780
gttcagagca taaggaaaag taccaaaacc caaattttct tgaatatttc agatgttttt 840
aaaaactcac ttctagctcg aaacatttga attgttttaa ctctgagcag ctgacaaaagt 900
tgaggttttt ttgttttgtt ttgttttgtt ttgtttttt gagacagagt cttacttggg 960
tgccctccag cctgtgcaat ggagcgatct cggtcactg caacctctgc ctctgggtt 1020
caagcaattc tctgtctca gcctctcgag tagctgggat tacaggcgca tgccaccaca 1080

```

```

cctggctagt ttttatattt ttagtagaga tggggacttc accgtgttgg ccaggctggt 1140
cttgaactcc tgacctcaag tgatgtgcct gcctcggcct ccgaaaatgc tgggattaca 1200
ggcgtgagcc accatgtcca gccaaagtgg aggtttatta gtactattag aaacaaaatt 1260
gagcaagtta agttaaagt ttgctgactt tgtatcaaca ctatagaaga tgagccacct 1320
tggttaatttg gaatttttgc tctgaaaaga acatgttagt tacaccttaa tgggtttaat 1380
ggagggtggg attgagaaaa gtgttcacat tagtgttgga atgtaggtaa ttgtacagtt 1440
tataagacct ttagcaccag gaaataaaat atgtgtgtgt acacacacag ttgttaaaaa 1500
ccgatgtgga attcatccaa accttaagat taggaaactg atgtggatgt aagtgtgcc 1560
tcaagtaagt gtgtcccccg ccataacat gtcttttctg tggcagtatt actctcttag 1620
tgtccggtct cccatctctt tctgcgggtg tccctaatat gcttgggtta ctacctggtt 1680
ccggggtcct gcctggcaat ggcggggcct ccgccgctt tcggccn 1727

```

<210> 943

<211> 2288

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2288)

<223> n = A,T,C or G

<400> 943

```

nnaggggagtc gaccacgcg tccgcagccg gctggctcga gtggccttcg tcgtcccttg 60
gcgccctggg agagtcgctg acgggtggac tgacggaccg cctgaggacg gccggccagg 120
gcggtgaaag cgccagccct atggcgcggg tcgctgagg cggaaggccg aggacggccg 180
gcggcggcgc ccgccccggc gatgcgggac ccgccgctcg cctcagggtgc catttggtatt 240
gtacttttagt ggcacgatgt actctgagtg gaggtcactg catttggtga ttcagaatga 300
tcaaggccat accagtgtgc tgcacagcta tccagagagc gttggacgag aggtggcaaa 360
tgctgtagtc cgtcctcttg ggcagggtgtt aggtaccctc tcagtggctg gtagtgagaa 420
tttgttaaaa actgacaaag aagtaaaatg gaccatggaa gtaatttgct atggactgac 480
ccttccattg gatggagaga ctgtaaaaata ttgogttgat gtatatacag actggattat 540
ggcttttagtg ttgccaaaag attctattcc attgccagtt attaaagagc ctaatacaata 600
tggtcaaact atactaaaac acctacagaa totttttgta ccaagacagg aacagggttc 660
cagctcagatt cgactatgct tacaggctct gagagccatt cagaaactgg cccgtgagtc 720
atctctcatg gcccagaaaa cttgggaagt ctactgttg tttctctgac agattaacga 780
catacttctg gccccaccaa ctgttcaagg tggcattgct gagaatctag cagagaagtt 840
gattggtgtt ctctttgagg tgtggttact agcttgact cggtgcttcc caacacctcc 900
ttattgaaa acagccaagg agatggtggc taactggagg catcaccacg cagtgtgga 960
gcagtggagc aaggtcattt gtgcactcac ttccagattg ctacgcttta catatgggtcc 1020
ttcatttcct gcatttaaag ttcccgatga agatgccagt ctgatccctc cagaaatgga 1080
taatgagtgt gttgcacaga catggtttcg ctttttacac atgttaagta atcctgtgga 1140
tttgagtaac ccagctatta taagctctac tcccaaattt caggaacagt tcttgaatgt 1200
gagcggaatg ccgcaagaat tgaatcagta tccctgcctt aaacatctgc ctcaaatatt 1260
ttttcgtgcc atgctgggaa tcagctgtct ggtggatgca ttcttaggta tttctagacc 1320
ccgatcagac agtgctcccc caacaccctg gaatagatta agtatgcctc aaagtgtctg 1380
tgtcagtacc accccccccac ataaccggag gcaccgggct gttactgtga ataaggccac 1440
catgaagaca agcacagtta gtactgtcga tgccctctaaa gttcagcacc agacgtcctc 1500
cacctctcct ctgtcaagtc caaatcagac tagttcagaa ccccggccac tgctgcctc 1560
tcggagacca aaggtaaca gcatcttgaa tctctttgga tcatggttat ttgatgcagc 1620
atltgttcac tgtaaaactt ataattggat aaacagagac agcagcatga ctgccattac 1680
aacacaagct agcatggagt ttcgacggaa aggttcacaa atgtccacag acaccatggt 1740
ttccaatcct atgtttgatg caagtgaatt tcctgataac tatgaagcag gaagagctga 1800
ggcttgtggg aactgtgtga ggatttttgt agcaagaaga ctggagaaga gattctgcca 1860
gcttatttat ccaggctctg gaatttttgt gtttttcatt tatatagttt tgatagtga 1920
gccattgtgg gttggccgac tgaaccgatg agtgatgttg gtctgaaata cctacagatg 1980
tctgtaagtg atcgacattt gctgaaatc cctgtctcat cagattgttg 2040
taaggacctt taagaacctt tttgtttgag aagtgtcaat ttatgtcatc ttatggactc 2100
tcttaatatg gcgaacattc gaaggacca cttcttggtc acccatttc tagcgcgtat 2160
ccccgttggc gtccgaatta gtcagtgtaa tctgccagg agtatccggg aagcccaaaa 2220
gcgggcctgt tcagccccga cgctgtggcg ccacagggg ggccgcgaac cccttggggg 2280

```

accaannn

2288

<210> 944
 <211> 314
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(314)
 <223> n = A,T,C or G

<400> 944
 nncgaattgg agctcccgcg ggtggcgcc gaggtacaaa ttccaagcc tgtttattaa 60
 ccaatthttac ccaagaccag gaactcctgc tgcaaaaatg gaacaagtc cagcacaagt 120
 gattggtgaa agacaacaag tgtagtaac agaagaatct tttgattcca agttttatgt 180
 tgcacacaat caattctatg agcaggtttt agtgccaaag aaccctgcgt tcatggggaa 240
 gatggttgaa gtggacatct atgaatcagg caaacatttt atgaaagggc agccagtatc 300
 tgatgccaaa gtgt 314

<210> 945
 <211> 718
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(718)
 <223> n = A,T,C or G

<400> 945
 tacatcccag aatcgthttg gatctgttaa ggthtttatt agaatgatta aataggcttt 60
 tgcagcatta actttacagt agttaccaga aaagactatg ctacaagaac caaaattgaa 120
 gtaagaagaa aaagactgaa atgatatgat tctaaatgaa aaaaatgaag aagtggata 180
 gtttctccac aggcataaga ggcaaagcat tgthtcagaa gtggactggc acctcacctg 240
 agatactcaa gactggcaac atgggtctac attctthgtt accacagatt cccttggtgc 300
 cggagagatt ccctagctct aatgacagat thtttggggg gtaatgaggc tatgagaaga 360
 ttgaggatct aggtacttgc ctthaactct acagcataca aggtgtgtgg ctcttatctc 420
 taggacacca atatttaatg ttgcatatca tgtatctcca gtacaagaag aaagthtatc 480
 agaathtagt taatgttgga aactthgtta tataaacaat gtaaacacta cattgacaaa 540
 aataththtat taatacaaa aatatgcata tagthtgctt actacagaaa thctthgttht 600
 tgatgtagac aacccaaagg agththtatg tatatagatt gtgaataaat tgggaaaaga 660
 aatagagata agtagagatt atttcacttc attaaactth tgaagtcnn nnnnnnnn 718

<210> 946
 <211> 718
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(718)
 <223> n = A,T,C or G

<400> 946
 tacatcccag aatcgthttg gatctgttaa ggthtttatt agaatgatta aataggcttt 60
 tgcagcatta actttacagt agttaccaga aaagactatg ctacaagaac caaaattgaa 120
 gtaagaagaa aaagactgaa atgatatgat tctaaatgaa aaaaatgaag aagtggata 180
 gtttctccac aggcataaga ggcaaagcat tgthtcagaa gtggactggc acctcacctg 240
 agatactcaa gactggcaac atgggtctac attctthgtt accacagatt cccttggtgc 300
 cggagagatt ccctagctct aatgacagat thtttggggg gtaatgaggc tatgagaaga 360

```

ttgaggatct aggtacttgc ctttaactct acagcatata aggtgtgtgg ctcttatctc 420
taggacacca atattttaatg ttgcatatca tgtatctcca gtacaagaag aaagttttatc 480
agaatttagt taatgtttgga aactttgtaa tataaacaat gtaaacacta cattgacaaa 540
aatattttat taatacaaaag aatatgcata tagtttgctt actacagaaa ttcttgtttt 600
tgatgtagac aacccaaagg agtttttatg tatatagatt gtgaataaat tgggaaaaga 660
aatagagata agtagagatt atttcacttc attaaacttt tgaagtcenn nnnnnnnn 718

```

<210> 947

<211> 523

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(523)

<223> n = A,T,C or G

<400> 947

```

nnngatggct tacatcctgt ctctgagtan agaattttat cgtgaggcac tcaaattcta 60
ttgcgagttc ctcaaactat gtattttatta attgtcaggt tactgattaa tactgacatt 120
gaaagggaca ttgttttctt tctaaatcat aaagctctgc tgatttgttt ttactgattg 180
tcttggtgat aaaacatttt agcctgtacg ctgtcatcca taggcaatga ttgtaacctc 240
tgtattgtac cctccaatgg aaaaggataa ctccgatatg aggagtcccc ctctcttctc 300
ctaaacagtc ttataaaaag catttccaac ttgtaacaga tgttggaaca tgcccaactt 360
tgttgtgtga tcttactgga taaattctca catttggtt ccaataaact tttatcaatt 420
taaaaaaaaa aaagaataaa aaaaaaaaaa ataaaaaaaa aaaaaataaa aaaaaaaaaa 480
aaaggtttgt ccaaaaaaaaa aaaaaaaaaa gctttaccen nnn 523

```

<210> 948

<211> 4246

<212> DNA

<213> Homo sapiens

<400> 948

```

ccacgcgttc gcaagaatat ggcattttatg atcatgttct tttgcctccc atagcctctt 60
gcttttctac aagcccaaatt tgctgaactt caggaagact ttgaatccga gaaggcttca 120
cggaacaagg cggaaaagca gaaaaggac ttgagtggag aactggaagc tctgaaaaa 180
gagctggagg acacgctgga caccacggca gccagcagg aactacgtac aaaacgtga 240
caagaagtgg cagagctgaa gaaagctctt gaggaggaaa ctaagaacca tgaagctcaa 300
atccaggaca tgagacaaaag acacgcaaca gccctggagg agctctcaga gcagctggaa 360
caggccaagc ggttcaaagc aaatctagag aagaacaagc agggcctgga gacagataac 420
aaggagctgg cgtgtgaggt gaaggtcctg cagcaggtca aggtgagtc tgagcacaag 480
aggaagaaag cgtgacgcga ggtccaggag ctccatgcca aggtctctga aggcgacagg 540
ctcagggagg agctggcgga gaaagcaagt aagctgcaga atgagctaga taatgtctcc 600
acccttctgg aagaagcaga gaagaagggt attaaatttg ctaaggatgc agctagtctt 660
gagctcaaac tacaggatac acaggagctt ctccaggagg agacacgcca gaaactaaac 720
ctgagcagtc ggatccggca gctggaagag gagaagaaca gtcttcagga gcagcaggag 780
gaggaggagg aggccaggaa gaacctggag aagcaagtgc tggccctgca gtcccagttg 840
gctgatacca agaagaaaag agatgacgac ctgggaacaa ttgaaagtct ggaagaagcc 900
aagaagaagc ttctgaagga cgcggaggcc ctgagccagc gcctggagga gaaggcactg 960
gcgtatgaca aactggagaa gaccaagaac cgcctgcagc aggagctgga cgacctcacg 1020
gtggacctgg accaccagcg ccaggtcgcc tccaacttgg agaagaagca gaagaagttt 1080
gaccagctgt tagcagaaga gaagagcatc tctgctcgct atgccgaaga gcgggaccgg 1140
gccgaagccg aggccagaga gaaagaaacc aaagccctgt cactggcccg ggccctcgag 1200
gaagccctgg aggccaaagga ggagtttgag aggcagaaca agcagctccg agcagacatg 1260
gaagacctca tgagctccaa agatgatgtg ggaaaaaacg ttcacgaact tgaaaaatcc 1320
aaacggggccc tagagcagca ggtggaggaa atgaggacc agctggagga gctggaagac 1380
gaactccagg ccacggaaga tgccaagctt cgtctggagg tcaacatgca ggccatgaag 1440
gcgcagttcg agagagacct gcaaaccagg gatgagcaga atgaagagaa gaagcggtcg 1500
ctgatcaaac aggtgcggga gctcgaggcg gagctggagg atgagaggaa acagcgggag 1560
cttgctgtag cttcaaagaa aaagatggag atagacctga aggacctcga agcccaaatac 1620

```



```

gaggctgcga acaaagctcg ggatgaggtg attaagcagc tccgcaagct ccaggctcag 1680
atgaaggatt accaacgtga attagaagaa gctcgtgcat ccagagatga gatttttgct 1740
caatccaaag agagtgaana gaaattgaag agtctggaag cagaaatcct tcaattgcag 1800
gaggaacttg cctcatctga gcgagcccg gcacacgccc agcaggagag agatgagctg 1860
gcgagcagaga tcaccaacag cgctctggc aagtcgcgcg tgcctggatga gaagcggcgt 1920
ctggaagctc ggatcgaca gctggaggag gagctggaag aggagcagag caacatggag 1980
ctgctcaacg accgcttccg caagaccact ctacaggtgg acacactgaa cgccgagcta 2040
gcagccgagc gcagcgccgc ccagaagagt gacaatgcac gccagcaact ggagcggcag 2100
aacaaggagc tgaaggccaa gctgcaggaa ctgcagggtg ctgtcaagtc taagttcaag 2160
gccaccatct cagccctgga ggccaagatt gggcagctgg aggagcagct tgagcaggaa 2220
gccaaggaaac gagcagccgc caacaaatta gtccgtcgca ctgagaagaa gctgaagaa 2280
atcttcatgc aggttgagga tgagcgctga cacgcggacc agtataaaga gcagatggag 2340
aaggccaacg ctcggtatga gcagcttaaa cgccagctgg aggaagcaga agaagaagcg 2400
acgctgcca acgcatctcg gcgtaaactc cagcgggaac tggatgatgc caccgagggc 2460
aacgagggcc tgagccgca ggtagcacc ggtagggcg ggtgagggc gggtggccc 2520
atcagcttct cttccagccg atctggccg cgccagctgc acctgaagg agcttccctg 2580
gagctctccg acgatgacac agaaagtaag accagtgatg tcaacgagac gcagccacc 2640
cagtcagagt aaagttgcag gaagccagag gaggcaatac agtgggacag ttaggaatgc 2700
accgggggccc tctgcagat ttcgaaatt ggcaagctac gggattcctt cctgaaagat 2760
caactgtgtc ttaaggctct ccagcctatg catactgtat cctgcttcag acttaggtac 2820
aattgtctcc ctttttatat atagacacac acaggacaca tatattaac agattgtttc 2880
atcattgcat ctattttcca tatagtcac aagagaccat ttataaaac atggtagac 2940
cctttttaa acaaaactcca ggcccttggc tgccgggtgc tgggttattg gggcagcgcc 3000
gtggctgcga ctcatctgct ctgcatgtct tctgtcatac agacaggtaa cctagttctg 3060
tggtcacgtg gccccgact cctcagccac atcaagtctc ctgaccact gtggactcta 3120
aactgcactt gtctctctca tttccttcaa ataagtatca atgctatttc agtgagcaaa 3180
ctgtgaaagg ggctttggaa agagtaggag ggggtgggctg gatcggaagc aacaccatt 3240
tggggttacc atgtccatcc cccaaggggg gccctgccc tcgagtcgat ggtgtccgc 3300
atctactcat tgaaactggc cttggcgagg gctggtctgt gcatagaagg gatagtgcc 3360
acactgcagc tgaggcccca ggtggcagcc atggatcatg tagacttcca gatggtctcc 3420
cgaaccgcct ggctctgccc gcgccctcct cacgtcagga gcaagcagcc gtggaccct 3480
aagccgagct ggtggaaggc cctccccgt cgccagccgg gccctcatgc tgacctgca 3540
aattcagccg ctgctttgag cccaaaatgg gaattattgg tttgtgtccg aggtgtgttc 3600
caagtttgct aatgaggttt atggagcctc cagaacagat gccatcttcc tgaatgttga 3660
catgccaagt ggtgtgactc cttcattttt ccttctccct tccctttgga cagtgttaca 3720
gtgaacactt agcatcctgt ttttggttgg tagttaagca aactgacatt acggaaagt 3780
ccttagacac tacagtacta agacaatgtt gaatatatca ttcgcctcta taacaattta 3840
atgtattcag ttttgactgt gcttcatact atgtacctct ctagtcaaag tggattaca 3900
gacattcagt gacaatgaat cagtgttaat tctaaatcct tgatcctctg caatgtgctt 3960
gaaaacacaa accttttggg ttaaaagctt taacatctat taggaagaat ttgtcctgtg 4020
ggtttggaat cttggatttt ccccttttat gaactgtact ggctgttgac caccagacac 4080
ctgaccgcaa atacttttc ttgtattccc atatttctag acaatgattt ttgtaagaca 4140
ataaatttat tattataga tatttgcgc acttctgttt acttgaagaa aaaagcacc 4200
gtggagaata aagagacctc aataaacaag aataatcatg tgaacg 4246

```

<210> 949

<211> 5431

<212> DNA

<213> Homo sapiens

<400> 949

```

tccggtgaag tcttcgaagc cctcattggc ggcaccccct gatagtgtt catagcatcc 60
gttgatcttg gcgtatgcct tctccagcag ggcgctccag aactogctcc cttcggtgta 120
atgcacacaa gagcagctcc cgtccttgg tgggcagcct gtcattccacc accacctcca 180
cccactcgcc gtattgccag aactggaagt gaaagatccc tgcattagttt tcctggaagc 240
ctggttttag ggggacgact cgagccagga tttcttcatt caaggtgagg gaggcaatgg 300
ctgccagcag ccagcagtc cctagggcag ctggcgagat cttggcagat gtctgtgcg gtggctcctc 360
caatgataaa ctgggggtca gcgcagatct ccatgttggc caggctggtc ttgaactcct 420
gacctcaggt gatctgtctg cctcggcctc ccaaagtgtt gggattacag gcgtgaacta 480
ccgcaccag ccttattggc caaatctgac acctatcta taatcaataa cagctgagca 540
gtagtaattg cagcattatg caatagctcg gtgcttagag tccctgttct gcctgtgact 600

```

```

ggtgtgccac cattggggcc gtcattttagc gtctccgagg ctacgttttc tcatctgtaa 660
aatggggaca atatcagcgc cttcttcaga gtctcgtggga ggattaaatg agatgatgta 720
tgcagagccg ttaagacgat gtttggcaca aagttcaggg cagctggttt agtttcctcg 780
acttcactac ctgaccctct gctaaactccc cgggtgtttt ccggacggcc acaactatcc 840
tagccttctt ccctatgggc tgcaaaggtg gcctcgggtt ccggtgggag ccccaactct 900
ggaccgcgat tcgcgagcct ccccggcgcc ggcccggtgca tcccgggagc tgtccgcaga 960
tggcagcacc ggcccgtgtc gcggcggttcc cggcgctcgg caggccgcag gatggcctgg 1020
tcccgggccc ggagcccagc aggcggggag cggctgaggc cacacccccc gggccgggcc 1080
gcttccctcc ggtgaatcat cgctcgagc ggccggcgccc gcagtggccg cagcagcgcg 1140
ccgggcccctg gccgcgcccc agccgagcgc agcgcggagt cggcccgacc tttctctgcg 1200
cagtacggcc gccgggaccg cagcatggcg ggcatcgcg ccaagctggc gaaggaccgg 1260
gaggcgggcc aggggctggg ctcccacgag agggccatca agtacctcaa ccaggactac 1320
gaggcgctgc ggaacgagtg cctggaggcc gggacgctct tccaggacct gtccttcccg 1380
gccatccctc ggcccctggg cttcaaggag ttggggccct actccagcaa aaccggggc 1440
atcgagtggg agcggccac ggagatctgc ttgaccccc agtttatcat tggaggagcc 1500
accgcacag acatctgcca aggagcccta ggtgactgct ggctgctggc agccattgcc 1560
tccctcacct tgaatgaaga aatcctggct cgagtcttcc ccctaaacca gagcttccag 1620
gaaaactatg cagggatctt tcaacttccag ttctggcaat acggcgagtg ggtggagggtg 1680
gtggtggatg acaggctgcc caccaaggac ggggagctgc tctttgtgca ttcagccgaa 1740
gggagcgagt tctggagcgc cctgctggag aaggcatacg ccaagatcaa cggatgctat 1800
gaagcactat caggggggtgc caccactgag ggcttgaag acttcaccgg aggcattgct 1860
gagtgggtatg ctctgaagaa gcccccctccc aacctgttca agatcatcca gaaagctctg 1920
caaaaaggct ctctccttgg ctgctccatc gacatcacca gcgccgcca tcaggagcc 1980
atcacgtttc agaagctggg gaaggggcac gcgtactcgg tcaccggagc cgaggagggt 2040
gaaagtaacg gaagcctaca gaaactgac cgcatccgaa atccctgggg agaagtggag 2100
tggacagggc ggtggaatga caactgcccc agctggaaca ctatagacc agaggagagg 2160
gaaaggctga ccagacggca tgaagatgga gaattctgga tgtctttcag tgacttctcg 2220
aggcactatt cccgcctgga gatctgtaac ctgaccccag aactctcac cagcgatacc 2280
tacaagaagt ggaactcac caaatggat gggaactgga gccggggctc caccgcgga 2340
ggttgccagga actaccgaa cacattctgg atgaacctc agtacctgat caagctggag 2400
gaggaggatg aggacgagga ggatggggag agcggctgca ccttctcgtt ggggctcatt 2460
cagaagcacc gacggcgcca gaggaagatg ggcgaggaca tgcacaccat cggctttggc 2520
atctatgagg ttccagagga gtttaagtgg cagaccaaca tccacctcag caaaaacttc 2580
ttcctgacga atcgcgccag ggagcgctca gacacottca tcaacctccg ggagggtgctc 2640
aaccgcttca agctgccgcc aggagagtac attctcgtgc cttccacctt cgaacccaac 2700
aaggatggg atttctgcat ccgggtcttt tctgaaaaga aagctgacta ccaagctgtc 2760
gatgatgaaa tcgaggccaa tcttgaagag ttcgacatca gcgaggatga cattgatgat 2820
ggattcagga gactgtttgc ccagttggca ggagaggatg cggagatctc tgcctttgag 2880
ctgcagacca tctgagaag ggttctagca aagcgccaag atatcaagtc agatggcttc 2940
agcatcgaga catgcaaaat tatggttgac atgctagatt cggacgggag tggcaagctg 3000
gggctgaagg agttctacat tctctggacg aagattcaaa aataccaaaa aatttaccga 3060
gaaatcgacg ttgacaggtc tggatccatg aattcctatg aaatgcggaa ggcattagaa 3120
gaagcagggt tcaagatgcc ctgtcaactc caccaagtca tcgttgctcg gtttgagat 3180
gaccagctca tcatcgattt tgataatttt gttcgggtt tggttcggct ggaaacgcta 3240
ttcaagatat ttaagcagct ggatcccag aatactggaa caatagagct cgaccttatc 3300
tcttggctct gtttctcagt actttgaagt tataactaat ctgcctgaag acttctcatg 3360
atggaaaatc agccaaggac taagcttcca tagaaataca ctttgtatct ggacctcaaa 3420
attatgggaa catttactta aacggatgat catagctgaa aataatgata ctgtcaattt 3480
gagatagcag aagtttcaca catcaaagta aaagatttgc atatcattat actaaatgca 3540
aatgagtcgc ttaacccttg acaagggtcaa agaaagcttt aaatctgtaa atagtataca 3600
ctttttactt ttacacactt tccctgttcat agcaatatta aatcaggaaa aaaaaatgca 3660
gggagggtatt taacagctga gcaaaaaacat tgagtgcgtc tcaaaggaca cgaggccctt 3720
ggcagggaat atttaaagca acttcaagtt taaaatgcag ctggtgattc taccaaacaa 3780
cagtccaaga ttaccatttc ccatgagcca actgggaaac atgggtatct atgaagtaat 3840
cttgtcaagg catctggaga gtccaggaga gaagactcac ctctgtcgtc tgggttaaac 3900
aagagacagg ttttgtagaa tattgattgg taatagtaaa tcgttctcct tacaatcaag 3960
ttcttgacc ttttcggcct tatcatctg gtcttataaa gaccaagggg atcctgcgtc 4020
tgatgaccc aaccagtatg ccaaaaccag gcatccaatt tgtaaaccaa ttatgataaa 4080
ggacaaaata agctgtttgc cacctcaaaa ctttatgaac ttcaccacca ctagtgtctg 4140
tccatggagt tagaggggac atcacttaga agttcttata gaaaggacac aagtttgttt 4200
cctggcttta ccttgggaaa atgctagcaa cattatagaa attttgcctt gttgccttat 4260

```

```

cttcttccaa atgtactgtt aaataaaaaat aaagggttac cccatgcaaa caaacaacaa 4320
caaacaacc aacaacaaac acaccacac cgcacgagac gcaacaagta gaacaacaac 4380
aaagaccacg ccctagcgca caccaaccac acagcaccaa aaacggctcg acagcaccac 4440
acaaacacgc agagacagcg gaaacaccac cacaagcgca ccggttaacaa gcttcgctag 4500
actctccacg catcaacagc gaccagacaa ccacgaaggg acagaaaaat gacgggaaca 4560
caccgacaag aacgcgaacg agcaacaacc gagcagaacc gcgaccaacc acgagcaaca 4620
ggaacatgaa cgacgacccc accacaccac gacccacgaa cagcgagcgc aggcacggca 4680
ggacgaaagc gcaccgacga cgagagaagc agaaggagag gcggaagact gagctgcgaa 4740
ggacgaaagt aggcgcggag cgcgagaaag agacaaggcg cacagagaga agacgagaca 4800
aaaagacggg cgcaaagaaa aggagaaaga gcacagcaac gccagcgcac acacaaagca 4860
gaaacgacac acagaagacg gcgaaaacag acaaaagcac acgaaaaaga ccggccacac 4920
cacacacgcc agacacacaa caaaacaaca acaaaacaaa cgcaatataa caccgcgcgg 4980
cacgaccacg acaacacaag ccaaacacac accaccagcg cacaagggaag accaacaagc 5040
aagcgagtag acagcgcaac acacaaaacc aacagcaacg gacacgacaa gagaaaacac 5100
gagaagcagc cagcaccgac acgcggccca cacagcggga cgcaagcggc cgacacacg 5160
agaccgcgca cgcggatgcg ggagggggcg ggagggaggg agaggggaag ggcagagga 5220
gagagagggc aatcgagaga agggagcaag agggagcacg accagcggag taggcccga 5280
cagccgaagg acggcagaga accgcagcgg aggagcgacc gagcagggag aaaacagaac 5340
agggagcaag aacacccacc gcaaccacac acaaaacaag aagcgacacc accagcccgc 5400
ccacgcgaac gcacaaaaca aagacacagc c 5431

```

<210> 950

<211> 421

<212> DNA

<213> Homo sapiens

<400> 950

```

accttagta gagacggggt tatatcatgt tgcccaggct ggtctcaaac tcctgacttc 60
aggcaatcca cccacctcgg cctcccaaag tgetgggatt acaggcttga gccgtgcgc 120
ctggcccaaa ctgatgtctt atccttctta gtgcctcaca ccagatcctg ttcagacatg 180
ttataacaaa ttagtatgag tttatTTTTt cacaattttt gacatctatg catagttttt 240
cacaatacac attttcctta aagggtttga ggaccctttt gtgtgactgc agacgcttct 300
acagtctgtg acttgtcttc tccttttcct aaagggtggt ttgatgggtc tttaaaattt 360
tgattgaaga acaacttacc aatttaccag tttgggttaa ttttgggtta acgctttttt 420
t 421

```

<210> 951

<211> 1242

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1242)

<223> n = A,T,C or G

<400> 951

```

cgcgtccgct gatatttttg ttaccctggc caccctttct attctagaaa agtttcccat 60
tttatatgga agtgactaat tttcaagctg ccaacaactt atatcgaggt aatattttat 120
tctctgaata aattcgtgtc gccgacagta gaggcataag gaaatctaca tgtatgtaaa 180
aataacttag aaattcagta cataatacat gattgaatac atgatcgtat ttaacatgtt 240
ttttttttct gcagtggaca aataaacatc ctcaaagtag caactgcaaa tcagttaccc 300
ttagaaaagc aagaccaaac actgtagtta cactattagc agtgaccaa aagggtctaat 360
attttctaag aatagtttta attacagaca tttgttatat ttaccttatg tgaaatacat 420
cactatttaa ttacattaat tttaacatct gttgtgtgga gttgtatagt tcatgcaaaa 480
gcctgtgggt atgggttttt caaacagca gaaaggtcaa aggtacctga atgctaaact 540
gcctggctcc cagctttttc attaaacttt tcagggtcct gggttcttta tctgtaaaa 600
gacagagttg gaccagttaa ctttaattgc catcctttta caccacaaa gttgataaaa 660
tttatctgtt cagcaaaagag attgaacaaa aaagcacgtt agtaatatga agacaggaaa 720
acgaatgaaa gtctaacaca taactcatat tgatttactt ttttctgtt agattttaca 780
ctctgaaaat ttcacctcat ttagtttcta caaatactag acatggaaac ttaaaatgtg 840

```

```

caggtgtcaa agcttaaaaa tcaggtgtgt cctcttttaa ggcatgtgcg ataagcctgc 900
agtcttaacc agacctggta ccagtttaac agttcattat acttctgtga tgagtggatc 960
tgtagtctg gtagagatta atgttgaaat ttacttgatt acggattacg gtattgacaa 1020
gcccatattt ggagtagggg cagaagacag aaaaaggcca ccaggccagc ggaaacacgt 1080
cccgggtgca caacgaccgc caaagaacgg tccatggaaa ggactcagga cgacaaatgg 1140
ggactacata aaaaacgtga cccaaacatc gatcagcaac actcactgta caagccgggc 1200
taacggaaaa cggcaatcaa caaacaanaa aacaaaagtc an 1242

```

<210> 952

<211> 1901

<212> DNA

<213> Homo sapiens

<400> 952

```

aactccccc ttatattaga aaataaataa aaggttacca taagtaagct ccagaaaaac 60
aacatattgc cgacctcacg gatttttacc aacctctgc tttccctgtg gccttggcac 120
actggcatgc tgggtctagga tcctctacgc acaacgcctg ctgcctcctt ccgtgtgggt 180
gccaagccaa gcgcctgct accctcatca ccaaattgca ctgcctcctt cctggaatcc 240
tttttccctag attcaccacc aaatcgtag cgctccttcc ttcttccctag cttccttcac 300
caaatcgcac tggctcctgg actcttttcc tatcttcacc acgaactgct gcttgcctgc 360
ttgctcctca gtcctagctt catcaaacac tggttcctgg gatcctgtct gctgctgtct 420
tctagattc actgaatcca cttctgtgta gcacctgggt cagctgtcaa ttaatgctag 480
tcctcaggat ttaaaaaata atcttaactc aaagtccaat gcaaaaacat taagtggta 540
attactcttg atcttgaatt acttccgtta cgaaagtcct tcacattttt caaactaagc 600
tactatattt aaggccttcc aaattcttct aactcttcca aaagccttct gccttagttt 660
ttttttaaat tacaccagtc ctttttagtag ctttttgatg tgatttttaa ccaacttccc 720
cttctagctt caagtattct tctaaattgg ttctgggtcta cgtaaacacc ctcatcttct 780
caagctttac cttctaactt ctgcaccacc agaaattaaa ttgatgggct tttaaaataa 840
attggttacc aataatttcc tcattttttt cagtgtctatt ttatccaatt tttggcttta 900
tatttttcta tcttctatac ttctccaata cttgtcttag cttgtttttc attttctatc 960
tgaaactctt gacaatattt tcattttcta tcttgtttct atcttccaat tttcttctaa 1020
gtttgtacat tttgccctta gctttttgtt tcctagcttg tcttttttct tctgcttctt 1080
acttttcagg tttaaattta tcttttttct tctaaaagta tgtttttatc ttctaatttc 1140
cctatcttct ctattctttt cttgccttcc cgtacttct gtcttccagt tttccacttc 1200
aaacttctat cttctccaaa ttgtttcacc ctaccaaate gttagcgctc cttcctggaa 1260
tcctttttcc tagcttcacc accaaatcgt tagcgctcct tccttcttcc tagcttctt 1320
caccaaactg cactggctcc tggactctt tctatcttc accacgaact gctgcttgct 1380
cgcttgcctc tcagtcctag cttcatcaaa cactggttcc tggaaatcctg tctgctgccg 1440
tcttcctaga ttcactgaat ccacttctgt gtagcacctg ggtcagctgt caattaatgc 1500
tagtcctcag gatttaaaaa ataactttaa ctcaaagtcc aatgcaaaaa cattaagttg 1560
gtaattactc ttgatcttga attacttccg ttacgaaagt ccttcacatt tttcaacta 1620
agctactata ttttaaggcct tccaaattct tctaactctt ccaaaggcct cccgccttag 1680
ttttttttta attacaccag tccttttagt agctttttga tgtgattttt aaccaacttc 1740
cccttctagc ttcaagtatt cttctaaaag tatgttttta tcttctaatt tctctatctt 1800
ctctattctt ttcttgcct tccgtactt ctgtcttcca gttttccact tcaaacttct 1860
atcttctcca aattgtttca tcttaccctg ccttaattaa t 1901

```

<210> 953

<211> 3099

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(3099)

<223> n = A,T,C or G

<400> 953

```

nngcctgtat cgttatagat cctcggaat acaagttaat tatcgtgtgg tcacgtgtg 60
cgcggtcggt ccacgcttta tcttgttcac cgggttgtct aggcgggtca gaccgggtg 120
ggtatgaacc cgggtggcatg cccgcgatag ggccatact cgcggggaag ctccgagggg 180

```

```

ccacgtagat ctttatctta aaggtgttac tgcgatacaa tgtgttaaata ttcctaataat 240
ctctagatat gcaacatgtc ttgcttttca ggctaaggctc cagatgtgtc gtgagacagt 300
ggatttttga ggtcttctgc gaagtataga atattttgtg tgtgtactcg ctgtcgtctg 360
gatgatttat ttttgtggtt tttttgtttt gttttatagg tgttttagatg tagttcatca 420
tgtgatgtgc gcggaatttt gctgggtgtg tgggtctagc ggtccttttg aggttcctct 480
tggcactggt ttcgtgggtg ggggccgtgt ggtcactgtg ttgggtttgt tgcttttgag 540
gtctgctatg gtggtgttca tgggtccccg cgttttgtgt gtctcttccg tgggttggtg 600
agtccctctg cctttatcca attatctatg ttcgctagta aattatgttt cacacggcgt 660
gagggggttg ttggcgcgct gtggttagatt cccactgtac tactcgagg agggctgaga 720
gcacggggag gtgtcgctct ttgtacctcg ggaggtgttg atggctgtcc ctggtggggc 780
tcgtccaggt tgggctccct gtccttcttc tcttcctggg cggtctata gtgaggacct 840
ctttccgtat atatataata actataaggt aagcagtagg aaagtggaat tgaaggagag 900
ggtagtaaaag gtagctggaa aagagagagt ttggagtagt gttgagaatt gagcgtgaat 960
tgtttagaat agagattagt aacagacaat aaagagaaa ctggtttttc caagtcaagg 1020
gtgagcagaa accgggagct tcctgctcgt gttcgtgtt gagaagctac ccgcggggtt 1080
gtagacctcg gacctcatgg cagagataat tcaggaacgc atagaagatc ggctcccgga 1140
attggaacag ctggagcgca ttggactgtt cagtcatgcg gagattaagg ctatcattaa 1200
gaaggcttcc gatctagagt acaaaatcca gagaagaacc cttttcaagg aagactttat 1260
caattatggt caatatgaaa ttaatctttt ggagctgatc cagagaagaa gaacacgcat 1320
tggatattca ttttaagaagg atgagattga gaattctatt gtacaccggg tacaagggtg 1380
tttccagcgt gcctcagcaa aatggaaaga cgatgttcaa ctttggctct cctatgtggc 1440
tttttgaag aagtggtgta ctaaaactcg ctttagcaag gtattctctg ccattgtggc 1500
gattcattcc aacaaaccag ctttgtggat tatggcagcc aaatgggaaa tggagatcg 1560
attgtcttca gaaagcgcaa ggcaactatt tcttcgcgca ctgcgctttc atccagagtg 1620
cccaaaactt tataaagaat actttaggat ggagctgatg catgctgaaa aactgaggaa 1680
ggagaaggaa gaatttgaaa aagccagtat ggatgtggag aatcctgatt attctgaaga 1740
aatccttaag ggcgagttgg catggatcat ctacaaaaat tctgtaagca taattaaagg 1800
tgcagaattt cactgtcac tgccttctgat tgcacagcta ttgactttg ccaaagatct 1860
acaaaaagag atttatgatg accttcaggc gatgatcctc tcacttggga 1920
ttatgtggca aggcgagaat tagagattga gtcacagaca gaagagcagc ctacaacgaa 1980
acaagccaaa gcagtgagg tggccggaa ggaggagagg tgctgtgctg tgtatgaaga 2040
ggcagtgaa actctgccaa cagaggccat gtggaagtgt tacatcacct tttgcttggg 2100
aagatttact aagaagtcaa atagtgggtt ccttagaggg aagaggttg aaagaaccat 2160
gactgtattc aggaaggcac atgaactgaa gcttctgtca gaatgccaat acaagcagtt 2220
gagtgtttcg ttgctgtgtt ataacttcct gagggagct ctggaagtgg cagtagctgg 2280
aactgaattg tttagagact ctgggacaat gtggcagctg aagctgcagg tgctgatcga 2340
gtcaaagagc cctgacatag ccatgctttt tgaagaagcc tttgtgcacc tgaaacccca 2400
ggtttgtctg ccattgtgga tttcctgggc agagtggagt gaaggtgcca aaagccaaga 2460
agacactgag gcagtcctta agaaagctct cttagctgtc ataggtgccg actcagtaac 2520
cctgaagaat aagtacctgg attgggctta tcgaagtggg ggctacaaaa aggccagagc 2580
tgtgtttaaa agtttacagg agagccgacc attttcagtt gactttttca ggaaaatgat 2640
tcagtttgaa aaggagcaag aatcctgcaa tatggcgaac ataagagaat attatgagag 2700
agcttttgaga gagtgttgat ccgcagattc tgatcttttg atggattata tgaaagaaga 2760
attgaaccac ccccttggtg gacctgagaa ctgtggacag atctactggc gagcgatgaa 2820
aatgttgagc ggagagtcag cagaggcatt tgtagctaaa catgctatgc atcagactgg 2880
ccatttatga agatgaagaa tacagtcagc tttgtgaaat agtattgcaa gcaagccccg 2940
tgggcaaat tgtattgagt ccactctgtaa tttgtcagat gatggcagac aagatggctg 3000
tctggttttg agacacactt taattttatg ttaacttgtt aaatctttt aaaaattaaa 3060
aaatttttat gattgagaaa ccaacaacac caccacaan 3099

```

<210> 954

<211> 2976

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2976)

<223> n = A,T,C or G

<400> 954

```

nataataccg ttttttgtgc caattattgc atacactatt ttgtgatttg tactcatgtg 60
taatatactc atttcttggt atctgattat agtgatgtct atgatatgtc gttatacatt 120
tattcttcga tcttgctcct ttattttttt ccgattatac attttcgata tatctaatat 180
ttttgtttgt ggcattcttg atcgataaagc tattaaacga tatcgccgtt catctttgtt 240
ttcctaatag aatttaattt ctctctagtt gttgtttttg tgggtgccttc tttatatctg 300
ctgtttgcgc ttgtccgtga tgtctgggtg tctgtctatt gtcatgaatg tgatgtattt 360
tagatttccc tttttatggg caacgtgtag tatcccatgg ttgctgtctg cttgggtgaat 420
ttgtccactt ggttgccctt gtatggtatt ggaccatgta gttgagtggg cgtggacgtg 480
gtatgtcaaa ggtgagaaac ttatcccat ataaaagtta agggttacta ttatatcctg 540
atagtgccct tagatcacac atgtagatga tcaaattgca tcttctagca taagactaga 600
ataatctgct tccaaagaat tcctttgtac tttagtagat gagggcaaag ctttcaccgt 660
aatgaaaagg caaatgggag gtctctgata agttggaatc atcatagcaa aaaaagagat 720
acctaccaga aaatttgcat taatatctat aacctcattt gtaaaaaaaa atcattaaat 780
ttataaacta ttttaaaaat aaaaagaata catatgtaat atgaatcata tgccaaatta 840
tattctatag tcataagtgc tatttaataaa tacatttgat tcatgctaca agagaaagaa 900
ttgagacaat ttcacatttc agaattcctg agtcttatca gagaaaaaca agtactgaaa 960
aaacaaacac aataaaccta cttaaagtag ggcaataaac aaaatttggg catattttata 1020
gttttaaacg tgaagactat gggacaataa tatatgtact tcatgaaatt ataacatgt 1080
ttttaaacgt tggtttttaa aaaaggcgtt ttgatcaaac aaggccacct gagtgcacac 1140
ttcaatgatg gtaagcccac ctttttaaaag gaataacatc tttattttaaa agcctaatta 1200
ttaataaaa aaggaaaaga gtttatttta acaaaatggt ttagtaagat tgcaatggga 1260
cagccctttg atgaaaaatc taaggagggt aaagccaatg taactgaatt agaacaagag 1320
ttccaatttt gagctaccat ccaccaaata atttcccttt tgctttgcat attacacagt 1380
gaaaataaac agttatatta agagcacttc agtcccacaa ggtaggattt aagctttgtg 1440
aatagggtga aatggccctg taacaatatg atgcctgcaa aaatacattc aactgaaaat 1500
taatgtctgt tctttaacta gtaaggaaac gggaaagctaa gtggtcccac ttaaacata 1560
aaacaaaaca aaacaaaac cactgtttat cctttctgga aagactacca aagcaaagaa 1620
catccaataa tattataaat ttaaaactgc atacttttac tcatctttac aagtaggaaa 1680
gatgcataca aactactcat gggctttata aataaagaca ctaagcagaa ataattttg 1740
ggttatttct ctgttcgtaa atacacagaa ataaaaaat taaaaaacac taaagtgcag 1800
acctataggc caatacaggc atgataaaga ggtgcagcca aatttgcac tacatttaca 1860
cttacatacc cagaaaaatg ttcttgcttt aaaaaaaaaa aattgtgcaa tttaaaaact 1920
agtcagtttt gtttgtgctg taatacaatt agaacttgtc tctgccact agtgaagtga 1980
ctgctagacc ttatagatga cactaggctc ttgacaatca cgtatctcat tagaatcata 2040
caacattgat tccacctcca gaaaatgta ggtcctctt gttgtagaat gaagagccac 2100
tggtatttgg ttgattgcct ttaaccagag aagatttcag ttccatttca caagctacaa 2160
tagctgcatt caattccact tgagctcgat gaactacata aaacatgagg cctatactta 2220
taataatctg taaacaaaaa acaaaatata cactaacact ctgttctgca atgacatctt 2280
ccattgtccg cagggtggtg cccaagtaag aattcagaag ctgggtagga cgcagtocaa 2340
ccgaagatgc catcagatag ttgggtaatg agagatcagt aatcgaaaac actgcattct 2400
gaagcccaaa aggtatgggt gtcagtctgg ccagcgccac cactttcagg ccgcttcctc 2460
cctccactac gcgaataacc gcgctcagct tctcgctgct ctggatcctg gcggccccc 2520
aggcggtgag gagccgcttg cagaccacat gggcagtgaa ggtgccgatg aggaagccca 2580
ccatcatcag acccatgccc agcacgaagc cgtacaggta gccagcggcc acgttgagca 2640
cgatgtagcc ccagccgcag gggaaagaga ccacgatgaa gccacgacg aagagcagga 2700
ccccagcag cgagtcaagg ctctccaccc acagcaggag gtggtgaagg tagcggcgga 2760
ccagggccag ggaagcgaag cacagggcgg ccaacacgca gaccagcacg aggctccggc 2820
accaacaggt gctgccgagg cagcagcagc gccagtttct cacctcagcc acgccgacca 2880
ccagccgcc gccgccactc ccggggccgc ccgccaaggc ccgcccggc tccggcagct 2940
ccgaagcctc gggcggaccg tggcgctccc ggacgc 2976

```

<210> 955

<211> 1978

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1978)

<223> n = A,T,C or G

<400> 955

```

nnnnnnnnnn nnnnnnnnnn nnnnnngtca gagcgggtcaa gttaagttga aatctcctaa 60
gtgtaagttg ggtgcttttg tctggatttt catcagctgt atgcttctta agatcattta 120
aaagtaatgc aacactgggt aacctctgta ctggtcggat aagaagttca acaaggctct 180
gccgtccaca ttctggtttt gcttggttta tcttgagaaa agcatgaaat cttggtttct 240
gtttttcaca ttttaataatt gtttccttgc tcatttcaaa gaagtttaca aaggagggt 300
aggtttttac caaatctttt gaatatttca gaaaaatgtc accaatgctt ttgctctcat 360
cccaattaac tataaggtct tcaagatcat cctttatctt agtgtgtaca tcaaagatat 420
ctgggatgct accaaaaata gtcttaatct cctctggtgc aaggataggt ccaccacgtt 480
gtccttcctc ttccaatggt acttgaaata actgaataat tgttgccaat atattaacat 540
aattactttc agtttgataa agctcttttg caacttgcca ccttgctgac tgctttgaag 600
gaactggagt ggagctttta gaagacttag tacaagactt tgggggtgtct ccatagttaa 660
tgctagactc tgggtgtgtg gagatatcta ggagtgacct tatggaaagg gaatgctcag 720
ctgagtggtg cttacgggtt ggaaatggtg acacgtctgt ctctcttgaa agctgagcaa 780
gtgtttcttt taaacgacgt cgtttgcatg ggtatttaga gaaagcattg 840
acactgattt cttgagctca ggagtatttg ccttttcata taaatacata gtttctccag 900
ctcgggcac ctttgaatg cttccccaga accactcttg cttgacaaca taaagtttct 960
ttgaaggttc aaagggaaga tcttttacta tattctcttc aactacaagg tgagtgcac 1020
tttcatctcc aagcggtaaa tatttacctc cttgcatttc agtcatttct tccatattgg 1080
ttttctcttc atctgaaaat cccaggaaac ttaaaataca atcttgaaat ggaggaaact 1140
taaattcatt tctaaagtca tcaactgctg catagaaatc ctgttcattc cgcctttccc 1200
aagctttata aatccattct ggcttcataa ttggagtacc tagactcaca gcaaccctga 1260
atttttctcc ttgtgtacaa ttgtccacca aatgtgtaac ttttgaatta aagtcttttc 1320
gaataactcc acccatgtga tggaccaatg tcaccaacct gactagttct tcttttttcc 1380
taaatacagt aaagcatagt actagattca tcatacttgt acaatacaac gggcgacatg 1440
aaaatggcaa aggtctctct ttttgtgaac aatttaatac aactgggtgg ccaataactc 1500
tacaatcagc cttgtagagg tcattaaaga cagaatcctg aaagtccgtg actacaaata 1560
cattttcaaa ttccggagaa tccaaacctt caaattcttc cactgactcc atctttacaa 1620
agccactttt aatgtccttt aaggctttta taagttcttc ttgttttoca gcttcttgaa 1680
ccaatatcac tctgttttca atctgaggca tctcttcttc tacatatgaa gtagatccaa 1740
taagtaagtt ttcttgga atctcagtaa ctttagaatc aaaaatggaa gagtctgcca 1800
agctagtcct cccagtagtg gatgttaata cactattttc agccatgatt tgtattcttc 1860
taaatacagc ctctcaaaaa agccctagga gttccacctc ttcaaacgcc gactcctctc 1920
acaaataaccg ccattctctg ccggcggtcg ccacaaccgg ttcaaaaact aagctgct 1978

```

<210> 956

<211> 2210

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2210)

<223> n = A,T,C or G

<400> 956

```

nnnnnnnnna aacacactca gcccttgac tgaacctgcct tctgattgga ggctggttgc 60
ttcgataaat gacctccagg accccactgt tggttacagc ctgtttgtat tattcttact 120
gcaactcaag acacctgcag cagggcgtga gaaaaagtaa aagaccagta ttttcacatt 180
gccaggtagc agaaacacag aagactgaca cccgccactt aagtggggcc agggctggtg 240
tctgccatg ttgccatcct gatgggctgc ttgccacaat gagggatctt cttcaatata 300
tcgtttgctt ctttgccctt ttctctgctg ggtttttgat tgtggccacc tggactgact 360
gttgatggt gaatgctgat gactctctgg aggtgagcac aaaatgccga ggctctggt 420
gggaatgcgt cacaatgct tttgatggga ttgcacactg tgatgagtac gattccatac 480
ttggcgagca tcccttgaag ctggtggtta ctcgagcgtt gatgattact gcagatattc 540
tagctgggtt tggatttctc accctgctcc ttggtcttga ctgcgtgaaa ttcctccctg 600
atgaccgcta cattaaagtc cgcactctgct ttgttgctgg agccaagtta ctaatagcag 660
gtacccagga aatcattggc tctgtgtggt atgctgttga tgtgtatgtg gaacgttcta 720
ctttggtttt gcacaatata tttcttggtt tccaatataa atttggttgg tcctgttggc 780
tcggaatggc tgggtctctg ggttgctttt tggctggagc tgctctcacc tgctgcttat 840
atctttttaa agatgttggg cctgagagaa actatcctta ttccttgagg aaagcctatt 900

```

```

cagccgcggg tgtttccatg gccagtcac actcagcccc tcgcacagag acggccaaaa 960
tgtatgctgt agacacaagg gtgtaaaatg cacgtttcag ggtgtgtttg catatgattt 1020
aatcaatcag tatggttaca ttgataaaat agtaagtcaa tccaggaaca gttattttaga 1080
attcatattg aattaaatta attgctagct taatcaaaat gtttgattct cctatacttt 1140
ttctttctat tactcttata ttttcccgctc attctctctg ctaaccttcc accttatgca 1200
cacactttcc ctatatttta agataagtct gctaggatgt agaaatattt gtttgtgatt 1260
tctatatagc tattagagat tatgacatag taatatataa atgaaatgat acttaaacag 1320
aaagcaattt ccaaagaggc cagggaccct aatctttgaa gagatgaaga aacttacttt 1380
tctccctggc ttttggttca ctttttgtac ttttaacaag tgggtgaatt atttgataat 1440
tttgagggaag attattcttt taaattcaaa ctagtatgtc aatgcctacc attactctga 1500
ttatatataa acagaaaaag gaaataacaa cttcgtatac cagccactgg tgagagttaa 1560
agacaagagc tgccccccca ccccaaatg tcaaaggcaa atgctaaatt gatactggag 1620
ctcgtggtga ctttctacct cactaacaac ataagggatc tccatattat ttcaccacta 1680
ttctagcttt gctgatatat tgccaaatga ttagactaca gaatagttca accagagaa 1740
ttactcattt attgattaaa catocaaata ctattgtaac atactatgtt aaaattcatc 1800
aattcaagtg cccacacacc actgaattat cagcaccaag caatatatta gacatatggc 1860
aaaattcaac aaatatattt tgatataaat aaataaacgt tcacgacttt acttaaaaaa 1920
tcaatgttgc ggctgggcac ggtagctcgc gtctgtaatc accgcactat gggaggccaa 1980
ggcgggtgga tcacgaggtc aagagacgga gaccatcctg gctaacatgg tgaaacctg 2040
tctctactaa aaatacaaaa attagccggg cgtggtggcg gtgcctgtag tcccagctac 2100
tcgggaggct gaggcaggag aatcgtttga acccaggagg tggaggttgc agtgagcgga 2160
gatcgacca ttgcactcca gtctggcaac agagcgagac tccatcnnnn 2210

```

<210> 957

<211> 2100

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2100)

<223> n = A,T,C or G

<400> 957

```

gggagaagca gtgaccagt gccaggccca cctgctgata cccagccaag cgcttcacac 60
cctggtggtt agagtctgaa accggatggt ccagggtcac gcagaacttg gaagacagag 120
aagttttgaa tgggtgtacag acagaactac taacttcgcc aagaactaag gacacattga 180
gtgatatgac aagaacagt gagatttctg gggaggagg cccattggga atacatgtag 240
tgcccttctt ttcattctctg agtgggaagga ttctaggact cttcatccga ggcattgaag 300
acaacagcag gtccaagcgg gagggactat ttcacgaaaa tgaatgtatt gtaaaaatca 360
acaatgtgga tctcgtagac aaaacctttg ctccagctgc ttctccaca aaaccgtgaa cagtatgaaa 420
tgaaatctcc aagtgtgctc ctccacgtgc ttctccaca aaaccgtgaa cagtatgaaa 480
agtcagtcct tggctctctt aacatttttg gtaataatga tggcgttttg aaaaccgaa 540
tgccgcctcc tgtccatgga aaatcgggac taaagacagc aaatctcaca ggaaccgata 600
gtcctgaaac agatgcatca gcttccctgc aacaaaacaa gagtccccga gtaccaaggc 660
tgaggaggaaa accatcctct ccctcactct cgcctctcat gggatttggc agcaataaaa 720
atgcaaagaa aattaagatt gacctaaaga aaggccctga aggacttggg ttactgtgg 780
ttaccagaga ctcttcata catggtcccg gtccattttt tgtaaaaaac attttaccaa 840
aggagcagc tatataagat ggccgcctac aatcagggga cagaattttg gaggtaaatg 900
ggagagatgt caccggacga acccaggaag agcttgtggc catgctcagg agcaccgaag 960
agggggagac agcatcgctg gtcattgccc gccagaagg acattttctg ccccgagagt 1020
tggatggtcg tctgcgaatg aatgaccagc tgattgcagt taatggggaa tctcttttgg 1080
gaaagtccaa ccacgaagct atggaaacac ttaggcggtc aatgtccatg gagggaaaca 1140
tccgagggat gatccagttg gtgattctga ggaggccaga gagaccaatg gaggatcctg 1200
cagagtgtgg ggcattttcc aagccatgct ttgagaactg tcaaaatgct gtaaccacct 1260
ctaggcgaaa tgataatagt atcctgcac cacttggcac ttgcagtcca caagacaaa 1320
agaaaggtct attgtgccc aatgacggat gggccgagag tgaagtcca ccttctccaa 1380
caccacattc tgtctggga ttgggcctcg aagattacag ccacagctct ggggtggatt 1440
cagcagtata ttttccagat cagcacatca acttcagatc tgtgacacgg gccaggcagc 1500
ctgaatcaat taatttgaaa gcctcgaaga gcatggacct tgtgccagat gaaagcaagg 1560
ttcactcatt ggctggacaa aaatcgggaat ctccaagcaa agattttggg ccaactctgg 1620

```


gtttgaaaaa	gtccagctcc	ttggagagtc	tgcagactgc	agtggccgag	gtcaggaaga	1680
atgacctttc	ctttcacagg	ccccggccgc	acatggttcg	aggccgaggc	tgcaatgaga	1740
gcttttagagc	agccattgac	aaatcctacg	atggacctga	agaaatagaa	gctgacggtc	1800
tgtctgataa	gagctctcac	tctggccaag	gagctctgaa	ttgtgagtc	gcccctcagg	1860
ggaattcggg	gctagaggac	atggaaaata	aagccaggaa	agtcaaaaaa	acgaaagaga	1920
aggagaagaa	aaaggaaaag	ggcaaattga	aagtcaagga	gaaaaagcgc	aaagaggaga	1980
atgaagatcc	agaaaggaaa	ataaagaaga	agggcttcgg	cgccatgctg	agatttggaa	2040
agaagaaaga	ggataagggt	ggaaaggctg	agcagaaaag	tactctgaaa	cannnnnnnn	2100

<210> 958

<211> 4967

<212> DNA

<213> Homo sapiens

<400> 958

gagtcgaccc	acgcgtccgt	tttttttttt	tttttttttg	gaggtgatgg	atatatttaa	60
tatcttgact	gtgccagtga	tatcatgggt	gtatgcatat	ttccaaaatc	atgaaatcgt	120
atatgttaaa	cactttgtat	gacagatgca	tccgacagca	ttaactcaag	cataccctga	180
gaatgactgt	atggtctaag	aagaatatgt	gttcagagtc	taagctaagg	aatccgggaa	240
tggccaaccc	agagagattc	acttcttata	tgtagaaggac	acttgaactc	cctgcctgtc	300
cgttggaaat	caggatgtgc	aaggaaacca	ggccttttat	tttgggttaa	atggaggttg	360
ctaagtggag	agtgcctaag	agaaatgtta	tataaactac	atactcttta	caaatagtag	420
cggtcctgtc	cagcccactg	ccactggacc	acatctgtat	ttaagtccta	aataaacctt	480
atgtccatt	cactggctct	gggtctcttc	ttggacaagg	cgccatccct	gttggaatca	540
atagggctcc	agcatgacac	atgtgcagga	ttttttaaat	tatatcaatt	atatctcaat	600
aaagctggtg	aaatttttaa	agggcctgac	ctgtcctgga	atggggaaaa	acttaatgtg	660
acaaaaatgt	aggttatagt	gaagggaaca	ggaaatggta	ctgggaccat	ttttactcca	720
gctaaaaaat	ttgaatttaa	gaaataaaaa	tatagatagg	aaggagctaa	tgtaaagcag	780
gaagtgaagt	gataagagtt	ttctgttaaa	tgtgatggca	aagcggtagg	tgagtatggg	840
ctccagtggg	acagaacttg	tggcagagaa	accaggtcaa	aagttaaagt	tggatttggg	900
gagtaattaa	agagagtagt	agcatttcca	agacagaaat	taatgagctt	tgcttacatg	960
aaaagattaa	gaggataagc	ttaagaacaa	taagtaccat	aaaaatgggt	ggcaatgatg	1020
atacattagg	ggtggaggac	ctaggggtcat	aagggtgccc	gtggcgactt	ggagtgaagt	1080
gttgagatga	tatgcccatt	tcatggggag	aagtagaaag	aacagaaaaa	ccacttttac	1140
tttagttctg	gtgtaactat	gaagaaaaaa	aagcctaatt	gaggacaaga	atagaccctg	1200
tttctatggg	caacaggcat	attctgctcc	ctatttcatt	atttcgctta	aaaaacactt	1260
ggtgaagact	tgatgcagat	tgtcctcttg	gaatctctga	tcctgatgtt	tattttaagt	1320
gcagagtggg	ggcttttcca	tggtatatag	tcagattctt	tttttttttt	tttttgaggt	1380
ggagtctcac	gctgttgccc	aggctggagt	gcagtgttga	gatcttggct	caatgcaatc	1440
tccacctcac	aggtagctgg	gactacaggc	acctgccacc	acgcctggct	aattttttgt	1500
tttttagtag	agatgggggt	tcaccatatt	ggtcaggctg	gtcttgaact	cctgaccttg	1560
tgaccgccc	cctcgccctc	ccaaaagtgt	gggattatag	tcgtgagcca	cgtgcccgtg	1620
cctagagtca	gatttttaaat	cttcaaatat	tcaagaccgg	tttattagct	atttgaggtt	1680
gtgaacgctt	ctccttcctt	acaagtgcga	agcctaactc	attgaatgtg	tggattacaa	1740
aacaagaaaa	cattaactta	ttgcaacaga	gtctggttta	attaataaat	cttttttgaa	1800
gttttctttg	acagatccta	cataaataaa	tatagtttta	aaagtggact	tttaaacatc	1860
agtttttcct	ttccgtcatg	gttttcctac	gacaaggata	aaagaccctt	cttccttatt	1920
tgaaaattct	cgcaatcaac	tagaactgaa	attatgaaca	ccaactctgt	caaaactata	1980
cttttggtac	ttcttggtga	gcaagagaaa	tgaagaaaac	aaaagaaaat	catgtgctat	2040
tttaatgtaa	tttatcctat	acttttttca	aaaagtcaca	ctcacgtctg	cttgagagtt	2100
ttagaggaat	ataatgtatg	aaagaaaatt	ccaataacat	aatgtacaaa	aatgttgtca	2160
catacagaag	agcaaaaatc	tacgtattgg	ggactattgc	tgtgggaaga	agggcctgat	2220
cttcatactc	atcttcctca	ttgagtacca	tgacccttcc	caattcatcc	atactacacc	2280
atcatctgtg	ccatgctttg	ccatgtccca	gggtgactgt	ccaccccagt	agtatctgcc	2340
gtttggattg	gctgcatgac	atctattata	ccaccatcca	ccaccgtctt	ctttagaaca	2400
ctgttttctg	ggaatctgat	ttaaccagcc	gtcattgtct	ctgtcatatg	tgctgaagaa	2460
catgcccgtt	tgaatggtea	tggtcctgtt	ttctccatc	agctgagatg	ctccatccat	2520
gagggcatta	ccggctgttc	ctctatat	gttccactgag	atctgggtatt	tggtggcttc	2580
attctgtaca	gtgaatcctc	catagtgagc	ctttactttg	tctcctttcc	agtcctccat	2640
ttctatcaaa	agttctgtgg	gtcccatcct	ggtaagctgg	ctaattttat	catttccaag	2700

```

ccaatattca cctggtaggc cacagtaatt cttcccatct gtgttggttg caacatttcc 2760
aaatccctgt ttatatggat cccatttcct gccaaagtca acactaccgt cttgacgggt 2820
ctgaatcact gtccatcctc ctttttctgt attcatgtca cagtatactc tatacgggtt 2880
gacagaactg tcagggtgaa tgagatacat ttcagatgtt tcacctcctt tcctgataat 2940
ttcctcacat tctttgccag acaccacagg aatattgcaa ctgacagtgc atgggggtgcg 3000
acaatattcc atttgagctg agacatcaga ttctaacttt tgtattttgc ttctcagggt 3060
ttccaggatt gaacgaagca cacgaagggt agttgggata ttgctattca cagtctcatc 3120
tatatataat tgggtgcttt ccagttctga ggagtactca ttgactacat tttcattatc 3180
ttttacttgc ttctgcctct tttgccacag gtctttcagc aaatacatgt actgaaagga 3240
agaagaggag gtctgggaaa cagcttcac attgttattt aactcatcaa cactatttct 3300
gattggcctt tcctgttgta gcaaagcctc ttgcaactga catcctgtag gacacaacac 3360
ccccaggctt gggtcagcgt gaagacagcc tccagcatca ggggcttttc tttctacttt 3420
cttttgagtg gcagctgctt tggctggacg agcccgatag ccacctccac tgatgggcgg 3480
tggggcaggc ctcaggctgg gaggctcttc tctctcttgc tcaagggggc gatgaccag 3540
ggcactgaag aaacctcct cattgtcgtt gacacctgg gacttaacta gaaaaacaca 3600
caatagtagc aataatagat gtttcatggt ttttaagttg tggaaagctc aagaaacctc 3660
gtgccgaatt cggcacgagg aactagtctc gagttttttt tttttttttt tttaaaagaa 3720
taaaatttat tgtactctcc tcgccccagg gtgccccctg gaaagcctga ggctacttgt 3780
acgcgttggc cttgtgcttc ggcaagaagg cgaagctggg gggcactggc ccaaggagca 3840
tctcgctgat gcggtccag tcggctgcct tctggctggc catcagcgtc tccaggtagt 3900
cgcgcccgac gtagtagggc ggcgctcgt tgatcctctg tgggagccgc tccagcagcc 3960
ccacgtggac gtaccggcac aggaaggaca gccactcgag cagaaagcgc cgggtcttct 4020
ccacgcctg cgtgtccgag cccagtgct ccaggccgta gttggtgaag tcccgagga 4080
tgtccaggcg ctccgacgac gagatgtccc agtgccgtg ctccttgatc tccgtgaaga 4140
gccacgggct tgagcagggc gccacgggca atcatgatcc cgtgacacc agtctgcatg 4200
ggcgcggttg gcatcctcaa atgacaagat gtccccattt ccgtgacgag tgccacgccc 4260
cagtcccgca gctcgggcag caggcggtgc gccaggttca cacgctcctg gacgcctgtg 4320
cggatcttca cagtcagcgg cacatccagc acctggttca tgccacggac gatctgctgg 4380
aacttggtgg agcgattcat gagggcacag cccccacct tctgtacac gaggtcgatg 4440
gggcagccga cgttgatgtc cacaaagtcc acctccacgg tgcggctcag cagctcgga 4500
cacttggtca tgggtgctggg gaaggcgccc tccagctgga cgccaaagat gtcctcacac 4560
tgggtggcgtt tgagtagggc cactcggac atctggccct gcagcagggt ggtgcagacg 4620
gccatctctc cacatgtcac atccgccccg aagcgcttgc agatccgtcg taagggcagg 4680
ttcccacacg tggtaggggg ggccaggtaa agtttgccac ggatgtccag ccgcttcttc 4740
tcacagggcg gcagcctgac caogtctca tccgtcaggg gccgcagggt ccgcacgggg 4800
ctgctgggag ggggtcgtagt gccggccct cgggggacct gctgggcacc acagtttcc 4860
tgctggggag cgccctcggc tgccgtgccc tcggggacag cggcagcggg tgtggggccc 4920
tggtgaacc ggcgcagggc ccgctcagct cgctcgaagc ggacctc 4967

```

<210> 959

<211> 2041

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2041)

<223> n = A,T,C or G

<400> 959

```

nnnnnnagtg gtattatata ggtctcagcc aagacatgtg ataactactg tagtagtagc 60
tggaagaga aatctgtgac tccaattagc cagttcctgc agacctgtg aggactagag 120
gaagaatgct cctggctgtt ttgtactgcc tgctgtggag ttccagacc tccgctggcc 180
atttccttag agcctgtgtc toctctaaga acctgatgga gaaggaatgc tgtccaccgt 240
ggagcgggga caggagtccc tgtggccagc ttccaggcag aggttcctgt cagaatatcc 300
ttctgtccaa tgcaccactt gggcctcaat ttcccttcac aggggtggat gaccgggagt 360
cgtggccttc cgtcttttat aataggacct gccagtctc tggcaacttc atgggattca 420
actgtggaaa catcttcgat ttgagtcccc gacaaactg cacagagaga cgactcttg 480
tgagaagaaa catcttcgat ttgagtcccc cagagaagga caaattttt gcctacctca 540
ctttagcaaa gcataccatc agctcagact atgtcatccc catagggacc tatggccaaa 600
tgaaaaatgg atcaacaccc atgtttaacg acatcaatat ttatgacctc tttgtctgga 660

```

```

tgcattatta tgtgtcaatg gatgcactgc ttgggggagc tgaatatctgg agagacattg 720
attttgccca tgaagcacca gcttttctgc cttggcatag actcttcttg ttgcggtggg 780
aacaagaaat ccagaagctg acaggagatg aaaacttcac tattccatat tgggactggc 840
gggatgcaga aaagtgtgac atttgcacag atgagtacat gggagggtcag caccaccaca 900
atcctaactt actcagccca gcatcattct tctcctcttg gcagattgtc ttagccgat 960
tggaggagta caacagccat cagtctttat gcaatggaac gcccagggga cctttacggc 1020
gtaattcctg aaaccatgac aaatccagaa cccaaggct cccctcttca gctgatgtag 1080
aattttgcc t gaggtttgacc caatatgaat ctggttccat ggataaagct gccaatttca 1140
gcttttagaaa tacactggaa ggatttgcta gtccacttac tgggatacg gatgcctctc 1200
aaagcagcat gcacaatgcc ttgcacatct atatgaatgg aacaatgtcc caggtagagg 1260
gatctgccaa cgatcctatc ttcttcttcc accatgcatt tgttgacagt atttttgagc 1320
agtggctccg aaggcaccgt cctcttcaag aagtttatcc agaagccaat gcaccattg 1380
gacataaccg ggaatcctac atggttctct ttataccact gtacagaaat ggtgatttct 1440
ttatttcacg ggctatgact atagctatct acaagattca gaccagct 1500
cttttcaaga ctacattaag tctattttgg aacaagcgag tcggatctgg tcatggctcc 1560
ttggggcggc gatggtaggg gccgtcctca ctgccctgct ggcagggtt gtgagcttgc 1620
tgtgtcgtca caagagaaag cagcttctct aagaaaagca gccactcctc atggagaaag 1680
aggattacca cagcttgtat cagagccatt tataaaaggc ttaggcaata gtagtagggc 1740
aaaaagcctg acctcactct aactcaaagt aatgtccagg tccagaga atatctgctg 1800
gtatttttct gtaaagacca ttgcaaaat tgtaacctaa tacaagtgt agccttcttc 1860
caactcaggt agaacacacc tgtctttgtc ttgctgtttt cactcagccc tttaacatt 1920
ttcccttaag ccataatgc taaggaaagg atgctatttg gtaatgagga actgttattt 1980
gtatgtgaat taaagtgtc ttatttttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040
n 2041

```

<210> 960

<211> 3099

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)... (3099)

<223> n = A,T,C or G

<400> 960

```

nngcctgtat cgttatagat cctcgcaaat acaagttaat tctcgtgtgg tcacgctgtg 60
cgcgtgcggt ccacgcttta tcttgttcac cgggttgtct aggcgggtca gaccgggtg 120
ggtagaacc cgggtggcatg cccgcgatag ggccatact cgcggggaag ctccgagggg 180
ccacgtagat ctttatctta aagggtgttac tgcgatacaa tgtgttaaat ttctaataat 240
ctctagatat gcaacatgtc ttgcttttca ggctaaggct cagatgtgtc gtgagacagt 300
ggattttgta ggtccttctgc gaagtataga atattttgtg tgtgtactcg ctgtcgtctg 360
gatgatttat ttttgtggtt ttttgtttt gttttatagg tgttttagatg tagttcatca 420
tgtgatgtgc gcggaatttt gctggtgtgg tgggtctagc ggtccttttg aggttctct 480
tggcactggt ttctgtgggtg ggggccgtgt ggtcactgtg tttggtttgt tgcttttgag 540
gtctgctatg gtggtgttca tgggtgcccc cgttttgtgt gtctcttccg tgggttggtg 600
agtccctctg cctttatcca attatctatg ttcgctagta aattatgttt cacacggcgt 660
gagggggttg ttggcgcgct gtggtagatt cccactgtac tactcggagg agggctgaga 720
gcacggggag gtgtcgtctt ttgtacctcg ggaggtgttg atggctgtcc ctggtggggc 780
tcgtccaggt tgggtccctt gtccttcttc tcttcttggg cgggtctata gtgaggacct 840
ctttccgtat atatataata actataaggt aagcagtagg aaagtggaat tgaaggagag 900
ggtagtaaaag gtagctggaa aagagagagt ttggagtatg gttgagaatt gagcgtgaat 960
tgtttagaat agagattagt aacagacaat aaaagagaaa ctggtttttc caagtcaagg 1020
gtgagcagaa accgggagct tctgtctcgt gttcgtgtt gagaagctac ccgcggggtt 1080
gtagacctcg gacctcatgg cagagataat tcaggaaacgc atagaagatc ggctcccggg 1140
attggaacag ctggagcgca ttggactgtt cagtcatgcg gagattaagg ctatcattaa 1200
gaaggcttcc gatctagatg acaaaatcca ggaagaacc cttttcaagg aagactttat 1260
caattatgtt caatatgaaa ttaatctttt ggagctgac cagagaagaa gaacacgat 1320
tggatattca ttttaagaagg atgagattga gaattctatt gtacaccggg tacaagggtg 1380
tttcagcgt gcctcagcaa aatggaaaga cgatgttcaa ctttggctct cctatgtggc 1440
ttttgtgaag aagtgggcta ctaaaactcg acttagcaag gtattctctg ccatgttggc 1500

```

```

gattcattcc aacaaaccag ctttgtggat tatggcagcc aaatgggaaa tggaagatcg 1560
attgtcttca gaaagcgcaa ggcaactatt tcttcgcgca ctgcgctttc atccagagtg 1620
cccaaaactt tataaagaat acttttaggat ggagctgatg catgctgaaa aactgaggaa 1680
ggagaaggaa gaatttgaaa aagccagtat ggatgtggag aatcctgatt attctgaaga 1740
aatccttaag ggcgagttgg catggatcat ctacaaaaat tctgtaagca taattaaagg 1800
tgcagaattt cacgtgtcac tgctttcgat tgcacagcta tttgactttg ccaaagatct 1860
acaaaaagag atttatgatg accttcaggc tctacacaca gatgatcctc tcaactggga 1920
ttatgtggca aggcgagaat tagagattga gtcacagaca gaagagcagc ctacaacgaa 1980
acaagccaaa gcagtggagg tcggccggaa ggaggagagg tgctgtgctg tgtatgaaga 2040
ggcagtgaag actctgccaa cagaggccat gtggaagtgt tacatcacct tttgcttgga 2100
aagatttact aagaagtcaa atagtgggtt ccttagaggg aagagggttg aaagaaccat 2160
gactgtattc aggaaggcac atgaactgaa gcttctgtca gaatgccaat acaagcagtt 2220
gagtgtttcg ttgctgtgtt ataacttcct gagggagct ctggaagtgg cagtagctgg 2280
aactgaattg tttagagact ctgggacaat gtggcagctg aagctgcagg tgctgatcga 2340
gtcaaaagag cctgacatag ccattgctttt tgaagaagcc tttgtgcacc tgaaaccca 2400
ggtttgtctg ccattgtgga tttcctgggc agagtggagt gaaggtgcca aaagccaaga 2460
agacactgag gcagtcttta agaaagctct cttagctgtc ataggtgccg actcagtaac 2520
cctgaagaat aagtacctgg attgggctta tcgaagtggg ggctacaaaa aggcagagc 2580
tgtgtttaaa agtttacagg agagccgacc attttcagtt gactttttca ggaaatgat 2640
tcagtttgaa aaggagcaag aatcctgcaa tatggcgaa acataagagaat attatgagag 2700
agctttgaga agctttggat ccgcagattc tgacttttgg atggattata tgaaagaaga 2760
attgaaccac ccccttggtg gacctgagaa ctgtggacag atctactggc gagcgatgaa 2820
aatgttgtag ggagagtcag cagaggcatt tgtagctaaa catgctatgc atcagactgg 2880
ccatttatga agatgaagaa tacagtcagc tttgtgaaat agtattgcaa gcaagccccg 2940
tgggcaaatt tgtattgagt ccactctgtaa tttgctcagt gatggcagac aagatggctg 3000
tctggttttg agacacactt taattttatg ttaacttgtt aaatctttt aaaaattaaa 3060
aaatttttat gattgagaaa ccaacaacac caccacaan 3099

```

<210> 961

<211> 1372

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1372)

<223> n = A,T,C or G

<400> 961

```

nnnnnnnnnn nncacagcag agatggccca ctgctcagcc ctggctccag aatgcaaaag 60
agatcagaaa tagatgctca gcaagaggca tgtgccaccc gcatcatgtc tcatgcagct 120
gccatagctt taatcaggaa aacacacatc ttatccact ttgcacagac cctcctgaag 180
tgcagaagat actaggagga ggcatggggg gagcagatgg aggaagaatg aaaagcagtc 240
caaagaatca ttctctcact tgggaaggac agaagaaagc tgtaccccag cagtgtcaag 300
gcaggaggct tcactcaagc cctgttcctc ccaggcctca cagcagtggg aatttacctc 360
agctaataga gggagatctt acaacacatt tctcaatcta gattcatgtc ttgagacccc 420
acccaagat caaaagctcc ttagtctctt cctctgccca cctcattctt caggccctct 480
ctcaaggacc taatcccttc aggatcctaa taaaatgaac aacattgggg ggaaaaaagg 540
taaaccctta tttggaaaaa gagttttaa aacaatttaa aacccattt cactttcaa 600
acagaaacaa gaaagcaagg aaaagataat ctatcaagca tctgccctct gctgtggtta 660
gccattttta agctgcattt ccacagagaa gagaacagtg atgggcccta gtccaggaa 720
cccacagggc actgtcttga gacctttta ggcagtgtcc agggaacaga cagacagaat 780
gaatgggtgg gtgtagacag acctggggct cagacaggca catgccagt acccaggaaa 840
caaagtttga aaatatatac acatagaaaa ataaattccc tagaacctag gcatggaaag 900
cttctaacca tgaatgcagc agcacaatgc aaactgggtc tttggctttc aaaaaaagg 960
aagaacctta acccctggct tactgtcccg aactcaagtc tcttgaccac tgtcttcagt 1020
ccactttgga ggtcgagtga ggcaagagca agtcaaactc accagggcaa gcagccact 1080
tgaactaggg agatgtgtgg agaggctggc caggatctcc caagtcaaac ccagcattga 1140
agttaagcat gcagtgcaca gttggactag gagtccatga taagcagggt acatctttag 1200
aggagtaagc agggcaagac actagctgct ggaaagcatc gcatctgcct tcattttgac 1260
atttgtcaga cacttcgtag gattgctggc atacagttca gaggattagg acggatgggt 1320

```

cgattaatgt gagggaacaat ctcgatttgg aggtattgtt ctactggcca nn 1372

<210> 962

<211> 3303

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(3303)

<223> n = A,T,C or G

<400> 962

```

nagtcgacca ggggcgagct gcagctctgc ctgtaaggct tcggaagtac gaggcggagg 60
ggacgaaaaa cggggggcca gactgttggt gctgtgggtg agacgagaaa ccaggaagaa 120
gaggctcgcc tcccactcgg cgaccgtaag cgaagcagcc gaaggcgagc gccgacatca 180
gcagctgccc cctaaatccc gcccttcgtc ttggcggcag cgggagactg agagacgcgc 240
gcagcagggg cgggactgga gaggggcccc gcgcgcggat ctgcgcagag cattagaggg 300
cggaagcgct atccgagcag gatgcgggtc gtggttgcc tggctcctcct gaacgtcgca 360
gcggcgggag ccgtgcccgt cttggccacc gaaagcgtca agcaagaaga agctggagta 420
cggccttctg caggaaacgt ctccaccac ccagcttga gccaacggcc tggaggctct 480
accaagtcgc atccggagcc gcagactcca aaagacagcc ctacgaagtc gagtgcggag 540
gcgcagaccc cagaagacac ccccaacaag tcgggtgagg aggcaaagac caaaaagac 600
agctccaaca agtcgggtgc ggaggcaaag acccaaaaag gcagcactag caagtcgggt 660
tcggaggcgc agaccacaaa agacagcact agtaagtgc atccggagct gcagactcca 720
aaagacagca ctggcaaatc ggtgaggag gcgcagaccc cagaagacag cccaacagg 780
tcgggtgagg aggcaaagac ccaaaaagac agccctagca agtcagggtc ggaggcgcag 840
accacaaaag atgtccctaa taagtccggg gcgagcggcc agaccccaa agacggctcc 900
agcaagtcgg gtgaggagga tcagacccca aaaagcgtcc ctaacaagtc ggtgaggag 960
aagcagactc caaaagacgg ctctaacaag tccggtgcag aggagcagg ccaatagac 1020
gggcccagca agtcgggtgc ggaggagcag acctcaaaag acagccctaa caagtggtt 1080
ccagagcagc cttcccggaa agaccattcc aagcccatct ccaacccttc tgataacaag 1140
gagctcccca aggtgacac aaaccagctt gctgacaaa ggaagctttc tcctcatgct 1200
ttcaaaaccg aatctgggga ggaactgac ctcatctctc cccgcagga ggaagttaag 1260
tcttcagagc ctactagga tgtggagccc aaagaggctg aagatgatga tacaggacct 1320
gaggagggct caccgcccga agaagagaaa gaaaagatgt ccggttctgc ctccagtag 1380
aaccgtgaag gaacactttc ggattccacg gtagcgaga aggatgacct ttatccgaac 1440
ggttctggaa atggcagcgc ggagagcagc cacttctttg catatctggt gactgcagcc 1500
attcttgtgg ctgtcctcta tatcgtcat cacaacaagc ggaagatcat tgcttttgc 1560
ctggaaggaa aaagatctaa agtcacccgg cggccaaaag ccagtacta ccaacgtttg 1620
gaccagaagt cctaacagaa tggatatatt ctctggaaaa agatgaacgt caccaatgga 1680
ttgtgctgct ctgctttcag ctttgatttt ttgtccttg agaaccctgt cctccctgct 1740
gatttgtttc taaatcaaaa gaaatgaaga aaaaagtact gtgacctgag agacacctc 1800
ctctagaatt tagtggcggg tctgggctgg cagaggtagg gggctgcttt gggctttgca 1860
cctgcacttt ggtgacattg ttcttctgtg ttccctttat ttatgctggt ggcttccatc 1920
cgttcctcct ctgagggtga gtggaggggt atatggaaac acggctatga ccaaaggagg 1980
atcccagcct gggcaggctg cgctgctgac caccctccct ggggcgccgg ctctgtagga 2040
aagttggtcc ttgactgtgg cattgcactc tgcaactgtt ctctctgcag acctagggga 2100
aaactgcagg tggaaagtgc tttctactaa ggcctcttac ttggggggg atgtgccta 2160
cagaagacat agaagatggg gaaatgccaa tgggcaaaga gctactttga atacataatt 2220
ctcttcaaa acttcagcag caaaccaaaa cagcagggtta aaaaaaaga tgctttttt 2280
ggtgcaagtc taacctgtct agcatgagat cttcttgatt ttctgattat tttatgtagc 2340
ttgagacaaa gtgaatcaac ttccacttag ttgtaccgag cataaaacag aacttgggct 2400
tcctggcagt gaggccactg tcccatcaca gatttttaaa ataaatatga tttgaagtag 2460
tgtgatcttt cacacaatca tactcagtag gaactttttg aaatagggca agtttatgtt 2520
tcatgcgaga aaacatgaag gagggttttg gttttggtct gcagtttttc caaagggctt 2580
ttatgagata catttccac aaagtccatt ttgcctttgt tgcctaaaac agacaaaata 2640
gacttagatt tattaataga aactatactc tctgccaatt ttacctcagt gtatttaagt 2700
gtcctttaat ctgatataag atgccaaggg tatttgataa aaattcttct tccatgccat 2760
gtcaggagtt aatacaaatg aagaaattcc gtgggtccc ctgggataag tgagggtagt 2820
gtcttggaca acactattgt ttgaagggtt atctcttcta atcatgctct accgcattgt 2880

```

```

agagagccta aagagagttg tttctgagct gatctcaggg aaatacaaat aacttgggag 2940
atgagggaaa taagatgaat tctgtgctgt caaggcagta agtctgaaga aaggaccatg 3000
cttcttataat tatcttccac cttgcttaaa acagcccata gctttgagtt gacattttca 3060
ttcttggcgg atagcctact ttatgaaggt aaggaatgaa ctccctaccct tcttgggtca 3120
ttctctgtac tgatgcgtta gtcttataat actttgcacc aacctgagga atcttctagg 3180
cttctctagc atccctaag actgtggtat ttcacgtctc tctccctgcc tgccttccct 3240
tccccccggt tgcgggcgcg gcggctcccc ccgttgcccc gtgtcccccc ttgttccnnn 3300
nnn

```

<210> 963

<211> 982

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(982)

<223> n = A,T,C or G

<400> 963

```

cccacgcgtc cgcggacgcg tgggccttga tcaatacatg actgacggga tcctgctccg 60
agagtccctc cgggaagccg acctggatca ctacagtgcc atcatcatgg acgaggccca 120
cgagcgctcc ctcaacactg acgtgctctt tgggctgctc cgggaggtga gggctgtgtg 180
gtttggtctc tctgcgcagt ggggtgttgac cagtgcacca ccagtagcta gtgggttgc 240
ccaggtgggc tgaggggggc tctggtaggc cagaggttcc tgaggcctct ggttgacagt 300
cagactcggg ttgtaagtcc atgctgtttc ttgctctgct gagggtggct tggggttttc 360
tgggcagtgg ctccattgct tcagtcttca tgattggtaa gaattgaata ggccatttg 420
tcagcttttg cttgtgtttc ctccgggggtg gtgctgatgg gactggggga caggagccaa 480
gggtcccccac catggggggc tccgagccgc ctcttctctc aggtagtggc tcggcgctca 540
gacctgaagc tcacgtcac atcagccacg atggatgcgg agaagtgtgc tgcctttttt 600
gggaatgtcc ccattctcca catccctggc cgtaccttcc ctgttgacat cctcttcagc 660
aagacccccc aggaggatta cgtggaggct gcagtgaagc agtccttgca ggtgcacctg 720
tcggggggccc ctggagacat ccttatcttc atgcctggcc aagaggacat tgaggtgacc 780
tcagaccaga ttgtggagca tctggaggaa ctggagaacg cgctgcccct ggctgtgctg 840
cccatctact ctcagctgcc ttctgacctc caggccaaaa tcttccagaa ggctccagat 900
gggcgtggga agtgcattgt tgccaccaat attgccgaga cgtctctcac tgttgacggc 960
atcatgtttg ttatcgannn nn

```

<210> 964

<211> 2100

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2100)

<223> n = A,T,C or G

<400> 964

```

gggagaagca gtgaccagtg gccaggccca cctgctgata cccagccaag cgcttcacac 60
cctgggtggtt agagtctgaa accggatggt ccagggtcac gcagaacttg gaagacagag 120
aagttttgaa tgggtgtacag acagaactac taacttcgcc aagaactaag gacacattga 180
gtgatatgac aagaacagtg gagatttctg gggaaggagg ccatttgga atacatgtag 240
tgcccttctt ttcattctctg agtggaaagg ttctaggact ctcatccga ggcattgaag 300
acaacagcag gtccaagcgg gagggactat ttacgaaaa tgaatgtatt gtaaaaatca 360
acaatgtgga tctcgtagac aaaacctttg ctcaggctca agatgtcttc cgccaggcaa 420
tgaaatctcc aagtgtgctc ctccacgtgc ttcctccaca aaaccgtgaa cagtatgaaa 480
agtcagtcct tggctctctt aacatttttg gtaataatga tggcgttttg aaaaccaaag 540
tgccgcctcc tgtccatgga aaatcgggac taaagacagc aaatctcaca ggaaccgata 600
gtcctgaaac agatgcacat gcttccctgc aacaaaacaa gagtccccga gtaccaaggc 660
tgggaggaaa accatcctct ccctcactct cgcctctcat gggatttggc agcaataaaa 720

```

```

atgcaaagaa aattaagatt gacctaaaga aaggccctga aggacttggg ttactgtgg 780
ttaccagaga ctctccata catgggtccg gtccattttt tgtaaaaaac attttacc 840
agggagcagc tatataagat ggccgcctac aatcagggga cagaattttg gaggtaaatg 900
ggagagatgt caccggacga acccaggaag agcttgtggc catgctcagg agcaccaagc 960
agggggagac agcatcgctg gtcattgccc gccagaagg acattttctg ccccgagagt 1020
tggatggtcg tctgcgaatg aatgaccagc tgattgcagt taatggggaa tctcttttgg 1080
gaaagtccaa ccacgaagct atggaaacac ttaggcggtc aatgtccatg gagggaaaca 1140
tccgagggat gatccagttg gtgattctga ggaggccaga gagaccaatg gaggatcctg 1200
cagagtgtgg ggcattttcc aagccatgct ttgagaactg tcaaaatgct gtaaccacct 1260
ctaggcgaat tgataatagt atcctgcac cacttggcac ttgcagtcca caagacaaac 1320
agaaaggtct attgctgccc aatgacggat gggccgagag tgaagttcca ccttctccaa 1380
caccacattc tgctctggga ttgggcctcg aagattacag ccacagctct ggggtggatt 1440
cagcagtata ttttccagat cagcacatca acttcagatc tgtgacaccg gccaggcagc 1500
ctgaatcaat taatttgaat gcctcgaaga gcatggaccc tgtgccagat gaaagcaagg 1560
ttcactcatt ggctggacaa aaatcggaat ctccaagcaa agatttttggg ccaactctgg 1620
gtttgaaaaa gtccagctcc ttggagagtc tgcagactgc agtggccgag gtcaggaaga 1680
atgacctttc ctttcacagg ccccgccgcg acatggttcg agggcgaggc tgcaatgaga 1740
gcttttagagc agccattgac aaatcctacg atggacctga agaaatagaa gctgacggtc 1800
tgtctgataa gagctctcac tctggccaag gagctctgaa ttgtgagctc gccctcagg 1860
ggaattcggg gctagaggac atggaaaata aagccaggaa agtcaaaaaa acgaaaagaa 1920
aggagaagaa aaaggaaaag ggcaaattga aagtcaagga gaaaaagcgc aaagaggaga 1980
atgaagatcc agaaaggaaa ataaagaaga agggcttcgg cgccatgctg agatttgga 2040
agaagaaaga ggataagggg ggaaaggctg agcagaaagg tactctgaaa cannnnnnnn 2100

```

<210> 965

<211> 2952

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2952)

<223> n = A,T,C or G

<400> 965

```

nnnnnnnaaa gggggaaatg ggccccttaa aaaaaaaggc aaaaggcccc ctttttttag 60
gaaatttccc aatcaattca ttccatcctt cccgcgcggg ttcccttaca acaccggttc 120
acccccctt ttgtaccctt ttocgttcct accttccttc ttctgcccc cacaagttaa 180
ctttcgggcc agcccccaa ttttgttttg taaattttta catgcattta ttaaatttat 240
atgcagatga ctacactact gcaattacag aaatgagtaa gaacatactc tcaagatctt 300
acagtcattg gttggggtga aagtatttct tctgtcttca tgaaaaatta aaaagataga 360
aaatcttgaa gtatttttgc accttaaaac aactaccac cctacatttg tactaaaaata 420
ggcttttgcg tgttttaaaa gcaattctag atgaggttat atttttacaa tactgtatct 480
catctcaaat aaattttata attctttacc ctgtctaaac ttgcatgcaa aataagaacc 540
agcaagcctt caaacttcaa tcacagtatt ccataggcta tattttaagt ctattgcatt 600
agttgaaatt tattttgcag agtatgttaa caaacatatt ctaacactta aaaaatcatt 660
acaatttttt ctgtttttgt cttctaaatt actctgagca gtgaattact ggagggaaga 720
taccatgtgc taaaatttgc gtctgggtgc agtctcagat ttctgcaaaa caccagtagg 780
tattcaaaag tgtgttcctt ttaaaacagc aggcgggata tcacctttct gtcttcaaa 840
attcaaaacca gactcccaat ctgggatttc tctacagagg gttggctgct tcccagttaa 900
tgtgagtttt gcaaagtttg catttcatga aaacagtgtt gtgtaaacat atattgtgtc 960
actttaccta ctatttacta aaatcagaga gtttagcctt tgaaatttat ggttctctgg 1020
agctatcata aatcaatcag tcatacgaat ggactagctg tagactcagg atatcaataa 1080
aactaggcag tgaaatttgc ctataattat actatattta gattaatagt tatcaaaaaa 1140
attttcccc aaaaaatacc tcaagggtaa aacagaatgg taaagttttt ttcaggataa 1200
tgaattttca aacatttcca agaccatttt aagtactgta aactctgtta 1260
tatttcattt ggataagtat ctaataagca attattacat atcctctcat ttaaattacc 1320
actgaaaact agaaataatc tttattttaat acgactgttt taacaccata tggaaacggg 1380
aataactaaa tgaaaattgt tcacgtaaat gtgatgggag tgggggggtg gggagcagta 1440
tttcttgaca tgtggcatgt cactcaggaa agtaaaaggc ccatcatatc caaaatgcc 1500

```

```

gcttgatat tcccttgcca cccacttgac gaacagacat accacatggc attaaatgct 1560
gcaacctttc ctaaaaatgc cacttggatt ggtccgctgt ggtgagtata taagaactct 1620
tggtctgtct cttgagtcctg tgagttcaaa gggagaatc tagtaaataa caccggctaa 1680
attttgccct cagatgtttg gcataaatga tttgtgagga tattggaacc tttgctgtt 1740
ttcacaccaa tgaaataaat tatgctactt gaaaaaaatt ctacagaaca taatgctaca 1800
cagtcacagt cgactttttg caaaagtacc agagaatata ttttagaaac agtgcttata 1860
aagcccccata tactccttag atatttccca aggatttctt ctcttggcta gcaggaaaac 1920
aatcttaata ttttatttat tottcataaa tacaatgtat ataataataa acactttgtg 1980
cacatgtttc caacaatttc attttctatg catctttaca taaggtagta gctaataact 2040
ctttctgtgg acacgtattt tccagttttc taaggtttat gtgttcaagc attgtaaaaa 2100
catattttaa aattgaatta ccagtaaaaa tattgaatgt acaggtcatt atgctcccac 2160
aaatacaaaa tacattgaaa aattatatca acagataatt acatatgaaa tatgaggcat 2220
atattttctt ctattattta ttttctccct aaagagttct aattgattaa atctcaagag 2280
acaaaatgta atttataaa acaactgtat tgttcagatt taggagacaa cctaagaaga 2340
tgattctgag taggtaggat ttttgctatt actgttatgt gaaaaagact gctcaattaa 2400
atgacagatt gttacatatc tccctaacaa gaggggcgaa ctgatactac aagcagccag 2460
aacaacataa ttagaataga attccaaggt tatattaata gagtaataag ttaattaaaa 2520
ccaagatcaa ctgagcttct atttacacca gttcagacag cccaagagga aaagaactct 2580
attttagaga catatgtgac tctttgagct tctgtcatcc aggtgccatt tctgatgcag 2640
cacatgtgca ctgaacagtt ggcaaagaag gaaaaagatt atggtagatg tatgtgcaga 2700
tagtctctct atgatgtaa aatacgtcca gaaagaaagc agggctttgt tgtaaaataa 2760
aaaatttccc atgactttt gttctttctg aatgtgattt gagcatgttt ctgtaaataa 2820
gaatatatac taacttatga tgtatataga acaaaaatag acttactcat caggaaagtga 2880
tggaattatg cacataaatt ggcaatgaca tttgaaaaat ttaggatctg gttcccactc 2940
tcatctaaat gt 2952

```

<210> 966

<211> 928

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(928)

<223> n = A,T,C or G

<400> 966

```

nnaaccaccc ggggcccccc agagcagaac caaatacacc acctagggca cgaactcggt 60
tatacccccgc catcacatgt cggaagcaga cataaggaac atcaccggct ttccccggt 120
tttcaagccc gaccaaatct gtaaccacag ggtatctctc attcgctggt agccaattct 180
acccccctgc cgacttaaga aattttgagt ctaatacacc cacctcatct ttagtcggcc 240
tggtgcgcca accgcaattt gtactgagta ccttcggaac tgactagtaa gtatatccaa 300
agggttagaa aggtcggtt taagagctac aagaagcatt aaccgcaacg gccacaacta 360
atttgtatcc attcttagta acttttagga accagactga atgcttctcc cacccttttg 420
actttccttt attagttcgc aacacaagaa catacaaaag accgtagcga caaccatttc 480
tgacgccttc aactttttaa tccaaattac gtgaaaccac aaagcatcag tgggtgtctc 540
ccgaggaatc caagaccccc cggccggttg ccaagccgcc ggaatttcag caggagagga 600
aggctcacc cccaccgca tggcgatgcc cgggagactg gagaagctca ggcaggcttg 660
gaagccaatc cccggcatatc agcagctctc ggggaatgcag agccctagag caagaccaag 720
ggcctcgcc gacactgaga gcctccagg agaggtcagg tctctcttcc tgtcctat 780
ctccctcga cttccctccc agcaggctgc tattgagcat tcagcaatcg ccagacaaag 840
cccttctggt ctgcagaacg cactccggca agcccaccgg gagaaccaa gccgcctcct 900
cgccctgcg gacgcgtggg tcgactcc 928

```

<210> 967

<211> 3053

<212> DNA

<213> Homo sapiens

<400> 967

```

agccgaccca cgcgtccggc tggaattaag gtcatcatgg tcacaggaga ccatccaatc 60

```



```

acagctaaag ctattgccaa aggtgtgggc gtcattctcag aaggcaatga gaccgtggaa 120
gacattgctg cccgcctcaa catcccagtc agccaggtga accccagggg tgccaaggcc 180
tgcgtagtac acggcagtgat tctaaaggac atgacctccg agcagctgga tgacattttg 240
aagtaccaca ctgagatagt gtttgccagg acctcccctc agcagaagct catcattgtg 300
gaaggctgcc aaagacaggg tgctatcgtg gctgtgactg gtgacgggtg gaatgactct 360
ccagctttga agaaagcaga cattgggggtt gctatgggga ttgctggctc agatgtgtcc 420
aagcaagctg ctgacatgat tcttctggat gacaactttg cctcaattgt gactggagta 480
gagggaagtc gtctgatctt tgataacttg aagaaatcca ttgcttatac ctttaaccagt 540
aacattcccg agatcacccc gttcctgata tttattattg caaacattcc actaccactg 600
gggactgtca ccattcctctg cattgacttg ggcactgaca tggttcctgc catctccctg 660
gcttatgagc aggtgagag tgacatcatg aagagacagc ccagaaatcc caaaacagac 720
aaacttgtga atgagcggct gatcagcatg gcctatgggc agattggaat gatccaggcc 780
ctgggaggct tctttactta ctttgtgatt ctggctgaga acggttcctt cccaattcac 840
ctgttgggcc tccgagtgga ctgggatgac cgctggatca acgatgtgga agacagctac 900
gggacagctg ggacctatga gcagaggaat atcgaggagt tcacctgcca cacagcttcc 960
ttcgtcagta tctgtgtgtg gcagtgggct gacttgggtc tctgtaagac caggaggaat 1020
tcggctctcc agcaggggat gaagaacaag atcttgatat ttggcctctt tgaagagaca 1080
gccctggctg ctttcccttc ctactctctt ctcactcttc tatatgacga agtcagaaaa 1140
ctcatcatca ggcgacgccc tggcggctgg gtggagaagg aaacctacta ttagccccc 1200
gtcctgcacg ccgtggagca tcaggccaca cactctgcat ccgacacca cccctcttt 1260
gtgtacttca gtcttgaggt ttggaactct accctggtag gaaagcaccg cagcatgtgg 1320
ggaagcaaga cgtcctgga tgaagcatgt agctctatgg ggggaggggg gaggggtgcc 1380
tgaaaaccat ccatctgtgg aaatgacagc ggggaagggt ttatgtgcc ttttgtttt 1440
tgtaaaaaag gaacaccgg aaagactgaa agaatacatt ttatatctgg atttttacaa 1500
ataaagatgg ctattataat ggaaaaatcc agatataaaa tgtattcttt cagtctttcc 1560
gggtgttcct tttttacaaa acaaaaaagg cacataaaaa ccttccccgc tgtcatttcc 1620
acagatggat ggttttcagg cagccctccc cctccccccc atagagctac atgcttcatt 1680
ccaggacgtg ttgcttcccc acatgctgcg gtgctttcct accagggtag agttccaaac 1740
tccagcactg aagtacacaa agaggggggt ggtgtcggat gcagagtgtg tggcctgtat 1800
ctccacggcg tgcaggacgg ggggctaata gttaggttcc ttctccacc agcctgtggg 1860
tggcaaagag acagacaaga cacactacag tgagtcttcc tgcgtccagc attacagagg 1920
gaaacaggga tgaaaaccaa ccggaggatg atgggggtcg ggtgtgttaa aatccaaaca 1980
tgggacctca actgtactta ttacatgtt ttttaggaata ccaagttacc tggaaagatg 2040
gttttagattc tgacaagttt tcaactaaatc atacttggtt tgtattttaa agtctaaaaac 2100
atgaccagtc ctcaactgt aactgagatc tacattctga agatgtgact atggtcagtt 2160
tgctggtcca gtcaccttag ctaactcagac tgaccactga gggagcctag acacctgag 2220
ggaaaacaaa aaccaataga actatagccc ctccactcc tcctccaacc aaagtacaga 2280
tgcccataat taccgccagg gcgtgcgctg atgatgagtt ttctgacttc gtcataatag 2340
aagatgagaa gagagtaggg gaaggcacag aaccaccagg taggtctgga aatagagtaa 2400
ggtaccaatt tatatgcaca cgaacacagt tcaaataaag aaagagaaat tgcacatcac 2460
cagtgacaat gaaataatca gcctgaaagg agaagccaag tacagtcaca gttaactact 2520
gagtcattaa cagaacaaat aaaaatgtct taaaacagat tgctactcca tgtgccagg 2580
gcctagagac gcagaggaaa tcagtctgca gactttgtaa tggaaatcct actcatcttc 2640
agtttgatt tcataagact tggtttatag gatgagcaga gtacttttct gttaaccatc 2700
ccagagcaac tgaacatttt ctttctttca tttctaaagt gttaagaag ctttttaaga 2760
ccatctgcct aatatcccag cattttgaag ataaagacct gccagtgtgg gtcaaaacca 2820
gtttatgcat tcccaaatt tgatctctga caacagcatt tgggatatca gctctgtgtt 2880
ctgaggcctg gtctgggga ctgaaaaaag ctgagcccga aggttccaa ggggcctgga 2940
ggctgagcca cacagcctct agcctgctga caggctccag gcagcctccg tgatcaccag 3000
ctccctgcta tgggtgtgaga aaggctgtcc ctgggcagga ctcagggtgtg 3053

```

<210> 968

<211> 1500

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1500)

<223> n = A,T,C or G

<400> 968

```

nnnnnnccgg cccccctcga ggtcgacgga tcgataagct tgcttggggg gggnnnnnnn 60
nnnnnnnnnn nnacgcgggg gcactcggcc tgagaaactc ggcaagcgcg cagtgtcgac 120
tccccggtct atgccaggcg catctcagct aatccaaaag taaatgagaa acttagaaaa 180
agattgccaa ttccaaatca acatatcttag agaaaattgg aaaaggagaa gcttactaca 240
gctttatttg aggacttttt aaagaacgct gggttctatc tgtgagctgc aaatcttggg 300
gcaaaaacca gagacattgc cagagcaaac aagaacagaa atacaaatgg agaactgggc 360
aaaagacata acccacagtt atcttgaaca agaaactacg gggataaata aaagtacctc 420
ggccgcccgg gcaggtactt taccagcaga ccacagtttt gccctggcta gaccaaccct 480
cagaacaaaa tcatcattcc ttgtatttat atttgtatct gagatagtaa acaagatggc 540
tgcccgagtc aacatggcac cttaacttat ttttttaata ggtaaaactt ctcaaaagt 600
agcttgcttt gtataagaac taagctatca gtatagatat agctatcctt ggagcttatg 660
tttcagacaa gaattattta ctaaaataaa taataaacia gataatgcat tatacaattt 720
gggcattttct ggtttctcaa gtgtatgcat catggtaaat ataaactaac cacaagatag 780
gtagattgat tcatttcatt ttaatctcct tgtgtaattc agtacctcca taattgttct 840
aatcttcttc ccactgttta caaattacca gttaattaac tggtgaaaga aaaattcaca 900
tatcagaata aaaataaatg tatactcact ttataaaaaat caccactgct gtctttcctt 960
aatactagca gtggaaatgt aagtggctta ctctacaaat ttggtgctgg caaatacata 1020
ggcaaacgtg gggagctgct ctagttagcat tcctcccttc ttattccctt tttctcttcc 1080
tcactttatg cataacatat tcctgtaccc aaagcattct accacagttc tatttgactc 1140
ccacttgtaa taactccttt aaaaaattcc atgtttaacc atatgacctt gctttgttac 1200
tcataattctc cctccctctc cccttccttt ctctctcttc cagaagtcac tcgctgggtg 1260
tgaaatattt tgtagggatg gttattatat tatttttagt atgagacctc aggacaatgt 1320
cctacacaca cacaataaat acagcacaca aatctcaggt gttgaagagt ggggttggtg 1380
cagacttctg tgttcagtaa aaaaatctgg gtggagcttg tggattgagt agttcgaagg 1440
gtcccgggaa tggcaatctt tcgggcaaga aggttgacc cgggcttaag gtagcccgag 1500

```

<210> 969

<211> 577

<212> DNA

<213> Homo sapiens

<400> 969

```

gggatgggtt gttcccgtgc tcttctcatg atagttagta agtctcataa gaactgatgg 60
ttttcaaatg gggagtttcc ctgcacaagc tttcttgtct gccactatgt gagatatacc 120
tttcaccttc cgccatgatt gtgaggcctc ccagccacg tggaaactgt agtccattaa 180
acctcttttt ctttataaat taccactctc cggatatgtc tttataagca gtgtgaaaac 240
agactaatac agagaccagc cgggtggaga cctccagctc ctcatccctc aagatacagg 300
aagttagctg ttcaggccgc ctgttccccg acgaggtaag ttccagggga cagaaacaag 360
ctctctgaag actctcatta atctttgctg tccgaagcta ccttctccat ctctgctca 420
cctgggagga ctccctggag gaagccagga aaggtgaaaa tccatgtatc tcttcacatt 480
tggagaacaa agggaattca agaacaattt tatggatttt ctttgttttt tattaattaa 540
gacatgcctg ttttaaatga gacaataatt ttttaaa 577

```

<210> 970

<211> 5670

<212> DNA

<213> Homo sapiens

<400> 970

```

agtgcgcccc tcgcgcggct cctcggggca cctgctgcct tggcgccttt ccccttgggc 60
ttcgcctcgc ccgcagcgcc ctccgcagag ggccccgccc gctgcgcgcg catccccgcc 120
cccggggcga tctgtcagag cacctcgcga gcgtacgtgc ctccaggaagt gacgcacagc 180
ccccctgggg gccgggggcg gggccaggct ataaaccgcc ggttaggggc cgccatcccc 240
tcagagcgct gggatatcgg gtggcggctc gggacggagg acgcgctagt gtgagtgcgg 300
gcttctagaa ctacaccgac cctcgtgtcc tccttctatc ctgcggggct ggctggagcg 360
gccgtccggg tgctgtccag cagccatagg gagccgcacg gggagcggga aagcggctgc 420
ggccccaggc ggggcggccg ggatggagcg gggccgcgag cctgtgggga aggggctgtg 480
gcggcgccct gagcggctgc aggttcttct gtgtggcagt tcagaatgat ggatcaagct 540
agatcagcat tctctaactt gtttggtgga gaaccattgt catatacccg gttcagcctg 600

```

gctcggcaag	tagatggcga	taacagtcac	gtggagatga	aacttgctgt	agatgaagaa	660
gaaaatgctg	acaataacac	aaaggccaat	gtcacaaaaac	caaaaagggtg	tagtggaagt	720
atctgctatg	ggactattgc	tgtgatcgtc	tttttcttga	ttggatttat	gattggctac	780
ttgggctatt	gtaaaggggt	agaacccaaa	actgagtggtg	agagactggc	aggaaccgag	840
tctccagtga	gggaggagcc	aggagaggac	ttccctgcag	cacgtcgctt	atattgggat	900
gacctgaaga	gaaagtgtgc	ggagaaactg	gacagcacag	acttcaccag	caccatcaag	960
ctgctgaatg	aaaattcata	tgtccctcgt	gaggctggat	ctcaaaaaga	tgaaaatcct	1020
gcgttgtatg	ttgaaaatca	atttcgtgaa	tttaaaactca	gcaaagtctg	gcgtgatcaa	1080
cattttgtta	agattcaggt	caaagacagc	gctcaaaact	cggatgatcat	agttgataag	1140
aacggtagac	ttgtttacct	ggtggagaat	cctggggggtt	atgtggcgta	tagtaaggct	1200
gcaacagtta	ctggtaaact	ggtccatgct	aattttggta	ctaaaaaaga	ttttgaggat	1260
ttatacactc	ctgtgaatgg	atctatagtg	attgtcagag	cagggaaaaat	cacctttgca	1320
gaaaagggtg	caaagtctga	aagcttaaat	gcaattgggtg	tggtgatata	catggaccag	1380
actaaatttc	ccattgttaa	cgcagaactt	tcagttcttt	ggacatgctc	atctggggac	1440
aggtgacctt	tacacacctg	gattcccttc	cttcaatcac	actcagtttc	caccatctcg	1500
gtcatcagga	ttgcctaata	tacctgtcca	gacaatctcc	agagctgctg	cagaaaagct	1560
gtttgggaat	atggaaggag	actgtccctc	tgactggaaa	acagactcta	catgtaggat	1620
ggtaacctca	gaaagcaaga	atgtgaagct	cactgtgagc	aatgtgctga	aagagataaa	1680
aattcttaac	atctttggag	ttattaaagg	ctttgtagaa	ccagatcact	atgttgtagt	1740
tggggcccag	agagatgcat	ggggccctgg	agctgcaaaa	tccggtgtag	gcacagctct	1800
cctattgaaa	cttgcccaga	tgtttctcaga	tatgggtctta	aaagatgggt	ttcagcccag	1860
cagaagcatt	atctttgccg	gttggaagtgc	tgagagacttt	ggatcggttg	gtgcccagta	1920
atggctagag	ggataccttt	cgtccctgca	tttaaaggct	ttcacttata	ttaatctgga	1980
taaagcggtt	cttggtacca	gcaacttcaa	ggtttctgcc	agcccactgt	tgtatacgct	2040
tattgagaaa	acaatgcaaa	atgtgaagca	tccggttact	gggcaatttc	tatatcagga	2100
cagcaactgg	gccagcaaa	ttgagaaact	cacttttagac	aatgctgctt	tccctttcct	2160
tgcataattct	ggaatcccag	cagttttcttt	ctgtttttgc	gaggacacag	attatcctta	2220
tttgggtacc	accatggaca	cctataagga	actgattgag	aggattcctg	agttgaacaa	2280
agtggcacga	gcagctgcag	aggtcgctgg	tcagttcgtg	attaaactaa	cccagtagt	2340
tgaattgaac	ctggactatg	agaggtacaa	cagccaactg	ctttcatttg	tgagggatct	2400
gaaccaatac	agagcagaca	taaaggaaat	gggcctgagt	ttacagtggc	tgtattctgc	2460
tcgtggagac	ttcttccgtg	ctacttccag	actaacaaca	gatttcggga	atgctgagaa	2520
aacagacaga	tttgtcatga	agaaaactcaa	tgatcgtgtc	atgagagtgg	agtatcactt	2580
cctctctccc	tacgtatctc	caaaaagagtc	tcctttccga	catgtcttct	ggggctccgg	2640
ctctcacaca	ctgccagctt	tactggagaa	cttgaaaactg	cgtaaacaaa	ataacgggtg	2700
ttttaatgaa	acgtgttcca	gaaaccagtt	ggctctagct	acttggacta	ttcagggagc	2760
tgcaaatgcc	ctctctggtg	acgtttggga	cattgacaat	gagttttaaa	tgtgataccc	2820
atagcttcca	tgagaacagc	agggtagtct	ggtttctaga	cttgtgctga	tcgtgctaaa	2880
ttttcagtag	ggctacaaaa	cctgatgtta	aaattccatc	ccatcatctt	ggtactacta	2940
gatgtcttta	ggcagcagct	tttaatacag	ggtagataac	ctgtacttca	agttaaagtg	3000
aataaccact	taaaaaatgt	ccatgatgga	atattcccct	atctctagaa	ttttaagtgc	3060
tttgtaatgg	gaactgcctc	tttctctgtt	ttgttaatga	aaatgtcaga	aaccagttat	3120
gtgaatgac	tctctgaatc	ctaagggctg	gctctgctg	aaggttgtaa	gtggtcgctt	3180
actttgagtg	atcctccaac	ttcattttgat	gctaaatagg	agataaccag	ttgaaaagacc	3240
ttctccaaat	gagatctaag	cctttccata	aggaatgtag	ctggtttctt	cattcctgaa	3300
agaaacagtt	aactttcaga	agagatgggc	ttgttttctt	gccaatgagg	tctgaaatgg	3360
aggtccttct	gctggataaa	atgaggttca	actgttgatt	gcagggaataa	ggccttaata	3420
tgtaaacctc	agtgtcattt	atgaaaagag	gggaccagaa	gccaagagact	tagtatattt	3480
tcttttctct	tgtcccttcc	cccataagcc	tccattttagt	tctttgttat	ttttgtttct	3540
tccaaagcat	attgaaagag	aaccagtttc	aggtgttttag	ttgcagactc	agtttgtcag	3600
actttaaaaga	ataatatgct	gccaaatttt	ggccaaagtg	ttaatcttag	gggagagctt	3660
tctgtccttt	tggcactgag	atattttatt	tttattttatc	agtgacagag	ttcactataa	3720
atgggtgttt	tttaatagaa	tataattatc	ggaagcagtg	ccttccataa	ttatgacagt	3780
tatactgtcg	gtttttttta	aataaaaagca	gcatctgcta	ataaaaccca	acagatactg	3840
gaagttttgc	atztatggtc	aacacttaag	ggtttttagaa	aacagccgtc	agccaaatgt	3900
aattgaataa	agttgaagct	aagattttaga	gatgaattaa	atttaattag	gggttgctaa	3960
gaagcgagca	ctgaccagat	aagaatgctg	gttttccctaa	atgcagtga	ttgtgacca	4020
gttataaatc	aatgtcactt	aaaggctgtg	gtagtactcc	tgcaaaattt	tatagctcag	4080
tttatccaag	gtgtaactct	aattccatt	ttgcaaaatt	tccagtacct	ttgtcacaat	4140
cctaacacat	tatcgggagc	agtgtcttcc	ataatgtata	aagaacaagg	tagtttttac	4200
ctaccacagt	gtctgtatcg	gagacagtga	tctccatatg	ttacactaag	ggtgtaagta	4260

```

attatcggga acagtgtttc ccataatttt cttcatgcaa tgacatcttc aaagcttgaa 4320
gatcgttagt atctaacaatg tatcccaact cctataaatt ccctatcttt tagtttttagt 4380
tgcagaaaca ttttgtgtgg tcattaagca ttgggtgggt aaattcaacc actgtaaaat 4440
gaaattacta caaaatttga aatttagctt ggggttttgt tacctttatg gtttctccag 4500
gtcctctact taatgagata gtagcataca tttataatgt ttgctattga caagtcattt 4560
taactttatc acattatttg catgttacct cctataaact tagtgccggac aagttttaat 4620
ccagaattga ctttttgact taaagcaggg ggactttgta tagaaggttt gggggctgtg 4680
gggaaggaga gtccctgaa ggtctgacac gtctgcctac ccattcgtgg tgatcaatta 4740
aatgtaggta tgaataagtt cgaagctccg tgagtgaacc atcattataa acgtgatgat 4800
cagctgtttg tcatagggca gttggaaacg gcctcctagg gaaaagttca tagggctctt 4860
tcaggttctt agtgtcactt acctagattt acagcctcac ttgaatgtgt cactactcac 4920
agtctcttta atcttcagtt ttatctttta tctcctcttt tatcttggac tgacatttag 4980
cgtagctaaag tgaaaaggtc atagctgaga ttcttggttc ggggtgttacg cacacgtact 5040
taaatgaaaag catgtggcat gttcatcgta taacacaata tgaatacagg gcatgcattt 5100
tgcagctgtg agtctcttca gaaaaccctt ttctacagtt agggttgagt tacttcctat 5160
caagccagta tgtgctaaca ggctcaatat tcctgaatga aatatcagac tagtgacaag 5220
ctcctggctt tgagatgtct tctcgtaag gagatgggcc ttttggaggt aaaggataaa 5280
atgaatgagt tctgtcatga ttactattc tagaacttgc atgaccttta ctgtgttagc 5340
tctttgaaat ttcttgaaat ttttagacttt ctttgtaaac aaatgatatg tccttatcat 5400
tgtataaaaag ctgttatgtg caacagtggt gagattcctt gtctgattta ataaaatgaa 5460
tgagttctgt catgattcac tattctagaa ttgcatgac ctttactgtg ttagctcttt 5520
gaatgttctt gaaattttag actttctttg taaacaaatg atatgtcctt atcattgtat 5580
aaaagctgtt atgtgcaaca gtgtggagat tccttgtctg atttaataaa atacttaaac 5640
actgaaaaaa aaaaaaaaaa aaagggcggc 5670

```

<210> 971

<211> 5456

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(5456)

<223> n = A,T,C or G

<400> 971

```

acgcgtccgc gctaaccagt cccccagttc agtagactgg agcccagagc ctgcttactt 60
gtcagggtgtt tattttgtct tgcttttttt ttttttttaa atgaagtcaa aatgccataa 120
agaccagatc tccagcagtt ggaaaaatgc attgatgatg cttaagaaa aaatgatttc 180
aaacctttga aaacactttt gcaaattgat atttgtgaag atgtgaagat taaatgcagc 240
aaacagtttt tccacaaggt ggacaacctt atatgcaggg aacttaataa agaggatatc 300
cacaatgttt cagccatttt ggtttctgtt ggaagatgtg gcaaaaatat cagtgtattg 360
gggcaagctg cacttctaac gatgataaaa caaggactaa taaaaagat ggttgccttg 420
tttgaaaaat ccaaggacat tattcagagt caaggaaatt caaaagatga agctgttcta 480
aatatgatag aagacttagt tgatcttctg ctggtcatac atgatgtcag tgatgaaggt 540
aaaaaacaag tagtggaag tttcgtacct cgcatttggt ccctggttat tgactcaaga 600
gtgaatatat gtattcagca agagattata aaaaaaatga atgctatgct tgacaaaatg 660
cctcaagatg cccggaaaat actctctaac caagaaatgt taattctcat gagtagtatg 720
ggagaaaagg ttttagatgc tggagattat gacttacagg taggcattgt agaagctttg 780
tgtagaatga ccacagaaaa acaaagacaa gaactggcac atcagtgggt ttcaatggat 840
tttattgcta aggcatttaa aagaattaa gactctgaat ttgaaacaga ttgcaggata 900
tttctcaacc ttgtaaattg catgcttgga gacaaaagaa gggcttttac atttccttgt 960
ttatcagcat ttcttgataa atatgagctg caaataccat cagatgaaaa acttgaggaa 1020
ttttggattg attttaatct tgggagtcag actctctcat tctacattgc tggagataat 1080
gatgatcatc aatgggaagc agttactgtg ccagaggaaa aagtacaaat atacagcatt 1140
gaagtgtgag aatcaaagaa gctactgaca ataattctga aaaatacagt aaaaatttagc 1200
aaaagagaag ggaaagaatt gcttttgtat ttgacgcac cactagaaat cactaatgta 1260
actcaaaaaa tttttgtgac aactaaacat agggaaatcta tcagaaaaca aggtatttca 1320
gttgccaaaa cgtcgtgca tatacttttt gacgcaagtg gatcacagat tctagtcca 1380
gaaagtcaaa tctcaccagt cggagaagag ctcgttagtt taaaggaaaa atcaaagtcc 1440
ccaaaggaat ttgctaaacc ttcaaaatat atcaaaaaca gtgacaaagg gaatagaaat 1500

```

aatagtcagc	ttgagaaaac	tactcctagc	aaaagaaaaa	tgtctgaagc	atcaatgatt	1560
gtttctggtg	cagatagata	cactatgaga	agtccagtg	ttttcagcaa	cacatcaata	1620
ccaccacgaa	gaagaagaat	taaaccacca	ctgcaaata	cgagctctgc	agagaaacct	1680
agtgtttctc	aaacatcaga	aaatagagtg	gataatgctg	catcactgaa	atctagatca	1740
tcagaaggaa	gacatagaag	agataatata	gacaaacata	tcaaaactgc	taagtgtgta	1800
gaaaacacag	aaaataagaa	tgttgaattc	ccaaaccaa	attttagtga	actccaggat	1860
gttataccag	attcacaggc	agcggaaaaa	agagatcata	ctatattacc	tggtgtttta	1920
gacaacatct	gtggaataaa	aatacacagc	aatgggcat	gttgacacc	tgtaacaaac	1980
attgaactat	gtaataacca	aagagcaagt	acttcgtcag	gagacacatt	gaatcaagat	2040
attgttataa	ataaaaaact	tactaaacaa	aatcatcct	cttcaatata	tgatcataat	2100
tctgaaggaa	caggaaaagt	gaaatataag	aaagaacaaa	ccgaccatat	caaaatagat	2160
aaagcagaag	tagaagtttg	caggaaacac	aatcagcaac	aaaatcatcc	taaaatttca	2220
gggcagaaaa	atactgaaaa	tgccaagcag	agtgttggc	ctgttgaatc	tgaaactact	2280
tttaactggg	ttctcctaaa	taagacaatt	gaagaatcgc	tgatatatag	gaagaaatac	2340
atattgtcaa	aagatgtgaa	tactgctact	tgcgataaaa	atccatctgc	tagcaaaaat	2400
gtgcaaagtc	atagaaaagc	agagaaaagaa	ttgacttctg	agcttaattc	ctgggattcg	2460
aaacaaaaaa	aatgagaga	aaagtcaaaa	gggaaagaat	ttaccaatgt	agcagaatcc	2520
ttgataagcc	aatcaataaa	aagatacaaaa	acaaaagatg	acatcaagtc	tacaagaaaa	2580
ttaaaggagt	ctttgattaa	cagtgggtttt	tcaaacaac	ctgttgtaaa	actcagtaag	2640
gaaaaagttc	agaaaaaaaag	ctacagaaaa	ctgaagacta	cctttgttaa	tgttacttct	2700
gaatgccag	tgaatgatgt	ttacaatttt	aatttgaatg	gagctgatga	ccctatcata	2760
aaacttggaa	tccaagagtt	tcaagctaca	gtcgaagaag	ctgtgcgga	taggtcaaat	2820
agattggtag	gtccaaggaa	tcatgatgaa	cttaaatctt	ctgtcaaaaac	aaaagataaa	2880
aaaattataa	caaatacatca	aaagaaaaat	ctgttttagtg	atactgaaac	agagtacaga	2940
tgtgatgaca	gcaagactga	tattagctgg	ctaagagaac	cgaaatcaaa	accacagcta	3000
atagactata	gcagaaataa	aatgtggaag	aatcataaaa	gtggaaaatc	aagatcatcc	3060
ttgaaaagg	gacagccaag	ctctaaaatg	acaccagta	aaaatatcac	aaaaagatg	3120
gacaagacaa	ttccggaagg	aagaatcaga	cttccacgaa	aagcaaccaa	aacaaaaaaa	3180
aactatgaag	atctctcaaa	ttcagaatca	gagtgtgaac	aagaattttc	acattcattt	3240
aaagagaaca	taccagtaaa	ggaggagaat	atccattcca	gaatgaaaac	ggtaaagcta	3300
ccaaagaaac	aacagaaagt	cttctgtgct	gaaacagaaa	aggaactatc	aaaacaatgg	3360
aaaaactcat	ctctactaaa	agatgctata	cgagataaatt	gccttgactt	atctccaga	3420
tctttatctg	gcagtcctac	atctatagaa	gtaacgagat	gtatagagaa	aataacagaa	3480
aaggatttta	ctcaggatta	tgactgcata	acaaaatcta	tatcacotta	tccaaaaact	3540
tcatcacttg	aatccttaaa	tagtaacagt	ggagttggag	gtacaataaa	gtcacccaaa	3600
aacaatgaga	aaaacttcct	gtgtgcaagt	aagaattggt	caccaattcc	acgaccactg	3660
tttttgccca	gacatactcc	aaactaagagt	aatactattg	taaatagaaa	aaaaataagt	3720
tctctggtac	ttacacaaga	aacacaaaac	agtaacagct	attcagatgt	aagcagttat	3780
agttcagaag	aacggtttat	ggaaattgaa	tctccacata	tcaatgaaaa	ttatatacaa	3840
agcaaaaagag	aggaaagtca	tttagcatct	tcattatcca	agtctagtga	aggaagagag	3900
aaaacgtggt	ttgacatgcc	ctgtgatgct	actcatgtat	caggccccac	ccaacatctt	3960
agtcgcaaaa	gaatatatat	agaagataat	ccaagtaatt	ccaatgaagt	agaaatggaa	4020
gagaaaggag	aaaggagagc	aaacttgctt	ccaaaaaac	tgtgtaaaat	tgaaagtgc	4080
gatcatcata	tccacaaaat	gtctgaaagt	gtatcttcat	tatcaacaaa	tgacttttct	4140
attccttggg	agacctggca	aatgaattt	gcagggatag	agatgactta	tgagacttac	4200
gagaggctca	attcagaatt	taagagaagg	aataatatcc	gacataaaat	gttgagttat	4260
tttactacgc	agtcttggaa	aacagctcag	caacatctga	gaacaatgaa	tcatcaaagt	4320
caggactcta	ggattaaaaa	acttgataaa	ttccaattca	ttatcataga	ggagctggag	4380
aattttgaaa	aagattcaca	gtcttttaaa	gatttggaag	aggaatttgt	ggacttttgg	4440
gaaaagatat	ttcagaagtt	cagtgcata	caaaaaagcg	aacaacagag	gcttcatctt	4500
ttgaaaactt	cattggctaa	aagtgtcttc	tgtaatactg	atagtgaaga	aactgttttt	4560
acatccgaga	tgtgtttgat	gaaagaagat	atgaaagtgc	tgcaagacag	gcttcttaag	4620
gacatgctag	aagaggagct	tcttaatgta	cgcagagaa	tgatgtcagt	attcatgtct	4680
catgaaagaa	atgctaattg	gtgaaatcta	gtttttatca	ccatacttta	tctaattatt	4740
attctctgta	tataactgag	gaaataagaa	tagtcctaca	aagagaaaaa	tatacatgtc	4800
accgaagcaa	gtgtaccctt	tataggaacc	ctcaaattaa	aaaaaatgt	cttttaattg	4860
atgagaggga	accagataaa	catgagttca	agcccagaag	acttctgtct	atacaaatat	4920
tttttttaatt	tttgagata	aaagctttta	gaaacttttt	gagtttaatta	tactcataaa	4980
atgagtttct	ttataaaatt	aaattttatt	gtgtaaaatg	tattattaca	taaaatgtgt	5040
ttttgaatca	atgcagtttg	gggatgaata	taattaaaaat	atgttttaata	acttagaatt	5100
caactaataa	aaatttagcc	acacttacaa	gggggaggaa	gtccctagtt	taaaatgtat	5160

```

aactgagtgg tagatcagta ctttcagcac actgtttggaa acattttattc agatatggct 5220
ctaattgtatt aggaagcact aaatggccta aaaaagctac tacattgcct aaatatgtta 5280
attcaatata gaagtcctat ttcataacca ggctgtttga caaatacttt taatctagta 5340
gtcattgttaa tatcttgcta gattaattta taaaaatgag tatacatttg atttgctttt 5400
aatgaagttg aaataaatgc ttatgtcact tgaataaata taaatcatta tannnn 5456

```

```

<210> 972
<211> 339
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(339)
<223> n = A,T,C or G

```

```

<400> 972
acttagacct ggtatggaga cccacgggg tgggaaaggg cttccctctg ccttgacaat 60
ttccttgaat atccagccca gtaagaatat tttttacatc atgacttttag ataacacgtt 120
tataactgaa gcaaaagctc gaagaaacaa cacttaactg tactacagga gttacacccc 180
atgcattttt aattccaatt ttgtgtgtgt gtgtgtgtgt gtgtgtgtct gtctgtgtgt 240
gtgtgtgttn nnnnnnnnnn nnnnnnnnnn nnnnnatgcg gtctcactat gttgcacagg 300
ctgttcttga atgcgggggc tcgagccatc caccagcct 339

```

```

<210> 973
<211> 4081
<212> DNA
<213> Homo sapiens

```

```

<400> 973
accggcgcat gogctgcctt ttaacccttc ccccccttg tttgcacaag ccgcccagcc 60
ttttttggtg aaccccatg togcccggtt cttgggaccg tgagcactct ctacctctgg 120
ccccccaca aaatgtttta aactttcttg ccgcccccc caaacctttt tttttttttt 180
ctttcattca ttaaatttta ttttgaatag cttcaatcaa aaaaggtttc ataagattat 240
ttacaatgct gaatgtacaa ttatgaatgt atgccttttt gacaagaggg taccattctt 300
gagcagcaat acaattttta aaatataaag atgcagtatc atttctgata taaagttact 360
taaaaaaatc caaggtctta gggaattcac aaatcataac tagaagtaac ttttattaat 420
ttaatgtaca cataattacc aaattttaat acattaaaaa tgtgtaaatg cccacagact 480
gtacaaaaat taacacccca ttttggttaa agttcccaac cactccccc cataaatata 540
caaaaacctt tttttagata tgtcaaaatt gcatgcatga atattttcta aagcttgaat 600
tttgctcttc actggataat gttatctata gctgtttctg taacagacta cataaacatt 660
gataatttat ttaccatgcc tttgaaactg tgcaggactt tcataaacat ggggaacaaa 720
ataaatagag taaaaactgc aacagttttg tttagatgca agtgcaattg ggaaagcttt 780
cgaatttcag gattataaaa ctactataaa agtatattat ctgttggttg cttagccact 840
tgtattcaag cattatttgc agcattgctt tacagcagtt ggtgctagaa gatacaaaac 900
atatagttac cactatttat acttgaggga gaaaaaaaac tttaaacaac cctgagggag 960
acacacatta aaaatcttgt tattttatta aaaagttaaa aagttacata tcattattta 1020
acaattactt tcccagacat ttctgtcctt taagtatgtg cataaataaa atttaaatca 1080
gcaatattca tcttaataca tcaaaataat atatgtacag attttaaaat ttaggtctgt 1140
ataaactcaa ataatttaat gtgaaattca gaatcaaaat tactatgtaa tggtaacctt 1200
cgagagaaga ctcagtcctat ctatggcact gagtagaacc cacacctggc ttcacaggca 1260
ttcttcaaat aacattctca acgtgaataa cccaccttgt ctatattcaa atctaacttc 1320
ctacaaatgc ttttccagcc acctaaacac ctcatctctt tgaaaacaat atggacagaa 1380
gagatatata acccttacta actctaaatg ttaaaaaagt gggggggggg ggtgtcaaaa 1440
atagctcttt atgatcatgc tcttaaagat gttaaatata atcgggataat tgaattttta 1500
agctgctact tagcaattac tttcattata tgcttcagta cttaaaccac agaataaaaat 1560
gcacaattgt ggaaatcact gaagaataac acgagcatat ttgaaattaa tatggaaatt 1620
ataaaatgat ccagagaata agtaactata gaaaatagtg ctaattcaca gctcaagagg 1680
tctaagatgc atagcttcat agaattcttc atggaacaac tgttatcatc taatgtgtat 1740
taatagcata ttatacatct gatggaaaac ttcgattata tttttgcagg aatcatcagt 1800
ggcaatagca gtaacagtga tcctgagtggt aatttctatt tttctatagt taccaaact 1860

```

```

catccaggtc tttgcagcat aaagagtgg aaccatttgg tcctaaaatt ctaggtaaaa 1920
tttggttaaat ttgtaaatat atgttgggaa aagaatgatc agctagaagt agaaagcacg 1980
agcaagcatg ttactggctc tggaagaaca gagaacaatg tcacactgtt ttcatagttt 2040
agcgtccatt ttatagcacg atcagttttc tgtgttggg taactgtggg cgttgccaga 2100
ctgctggatc cacctataaa aggtgttttt taaaagttac cttaattttg gcaagaattt 2160
aaatgttaat caggccaaac agaaaggtga aaaatgtttc tccacatctc ttttggctca 2220
atgaatgtca attttttaac tttatttcct caattttttt tctcccagaa atttccgcat 2280
caaatatgct catttgtaac gatccaattc aaaatagaca tgttctgacc tctggcgcca 2340
cctaattggca taaaacaaac tcatcaaatt catattgctt tgaaaaaacg gcagccattc 2400
aaatccagta ttttttaagc ctcattattg ataagacaga gacatacatc aaacctcaa 2460
aaattttatg aggtaaaatt ctaacttaaa aaaaactatt atcctatgtc tttaggtaat 2520
tgaaaacata gaagaaaatt ttaaaaaacc atttaaaata acacaaagcc tgacagaaac 2580
aaatttgaag aaacgttaaa agatgaatct acatctactg ccgaaagaaa tgaatcttat 2640
ttcctagtga aaagggttct acaacattta acagaagcaa attagactgc caacaccaca 2700
catagcacag gagccattta agagctttga gaggcgtctc aagaaggcag tgaagccct 2760
tgctgattag aaaaataaaa cccaggcagt ttgtacagaa aatataaaac cagaaatgga 2820
gattacctga gttgttctat aagcaacacc ataaacactc attcctaact ctagaccatc 2880
atagggaatt ggcatatgtt tatacagaat tctttggaag aaacattgga atcaaatgaa 2940
aacaggcttt cagtatatatt tctactggagg ctaattaaca ctcatcttct ttttatcaat 3000
caciaactta cagcctgtat ataaacacag acttttctaa caagagggtt gtgagcataa 3060
atgtgaagag gtaaaactagt ctcaaaaact aatgttgaaa aacctacca acacaaaact 3120
tctcctgtac ccaatataaa gaatatcact gaaagtaaca atcaagaaaa ttctggaaat 3180
gtatgtaata tttgggttgc tgaatgaaga tataggactt tatggattga ttgttaattt 3240
aactgttagg acgatataatt tttctgtttt tattttaagg aagagcaaag ctgtcaaata 3300
agctactata tcagaaggga cataaactga actagtcca ttctgacaca caggatcaga 3360
aactcctaaa atcacatatt cctgaatact gctatcagca ataccactga gaccgattca 3420
ctgctatgtt atggtgatga tttgacatga tccattctcc ttaactaaag ctttagcttc 3480
tgtggttgc tgagggtttg gtggccattc tggatcaacc aagagctcct gcgccagata 3540
catgtacttt gcctttgtg tcttctttct acagcccagg gccagggta agcagcat 3600
tccccaccga tccactgact cctccaactgt gatagacaca aaggcattga caagaacaat 3660
gatgagcata gttacacgcc actgatattg tacacacact atctgaagaa cctgggtcaac 3720
agaggcaact ggatacaaca tgatgaataa tataaaaata tataaaaaaa tcacagaaaa 3780
aacaacaaaa taatttttgt agcaagggtt cctgaagggt ttctcttttg aaaaggcaat 3840
tgccactatg aggtactgaa aactggaaat aaaaaacact ggggtatttt cataattttg 3900
tatattatgt tcatacagtt cggtttcatt gtctacgtgt gaagaattcc aaaaccgct 3960
tctgttgtta ttacaagcat ctgattttgg atgccacact tcataccaag gttgtgttt 4020
gacccaaaaa aaacccaaag attgaaatcc aatgcagatg ataatctgag acaaaacgga 4080
g 4081

```

<210> 974

<211> 3079

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(3079)

<223> n = A,T,C or G.

<400> 974

```

nnnagcggcg ggcgcggcg ctagcggagc ggcaggcggg ggagcgaggc cgcgcgcgcc 60
gaagatggct gagaagcaga agcacgacgg gcgggtgaag atcggacact acgtgctggg 120
cgacacgctg ggcgtcggca ccttcggcaa agtgaagatt ggagaacatc aattaacagg 180
ccataaagtg gcagttaaaa tcttaaatag acagaagatt cgagtttag atgttgttg 240
aaaaataaaa cgagaaattc aaaatctaaa actctttcgt catcctcata ttatcaaaact 300
ataccagggtg atcagcactc caacagattt ttttatggta atggaatatg tgtctggagg 360
tgaattattt gactacatct gtaagcattg acgggttgaa gagatggaag ccaggcggct 420
ctttcagcag attctgtctg ctgtcgatta ctgcatagg catatgggtt ttcacgaga 480
cctgaaacca gagaatgtcc tgttgatgc acacatgaat gccaaagatg ccgatttcgg 540
attatctaat atgatgtcag atggtgaatt tctgagaact agttgcggat ctccaaatta 600
tacagcacct gaagtcactc caggcagatt gtatgcagggt cctgaagttg atatctggag 660

```

```

ctgtggtgtt atcttgtatg ctcttctttt tggcaccctc ccatttggatg atgagcatgt 720
acctacgtta ttttaagaaga tccgaggggg tgtcttttat atcccagaat atctcaatcg 780
ttctgtcgcc actctcctga tgcataatgct gcaggttgac ccactgaaac gagcaactat 840
caaagacata agagagcatg aatggtttaa acaaggtttg cccagttact tatttcctga 900
agacccttcc tatgatgcta acgtcattga tgatgaggct gtgaaagaag tgtgtgaaaa 960
atttgaatgt acagaatcag aagtaatgaa cagtttatat agtgggtgacc ctcaagacca 1020
gcttgcaatg gcttatcatc ttatcattga caatcggaga ataatgaacc aagccagtga 1080
gttctacctc gcctctagtc ctccatctgg ttcttttatg gatgatagtg ccatgcatat 1140
tccccaggc ctgaaacctc atccagaaag gatgccacct cttatagcag acagcccaa 1200
agcaagatgt ccattggatg cactgaatac gactaagccc aaatctttag ctgtgaaaaa 1260
agccaagtgg cgtcaaggaa tccgaagtca gagcaaaccg tatgacatta tggctgaagt 1320
ttaccgagct atgaagcagc tggattttga atggaaggta gtgaatgcat accatcttcg 1380
tgtaagaaga aaaaatccag tgactggcaa ttacgtgaaa atgagcttac aactttacct 1440
gggtgataac aggagctatc ttttgactt taaaagcatt gatgatgaag tagtggagca 1500
gagatctggg tcccaacac ctcagcgttc ctgttctgct gctggcttac acagaccaag 1560
atcaagtttt gattccacaa ctgcagagag ccattcactt tctggctctc tcaactggctc 1620
tttgaccgga agcacattgt cttcagtttc acctcgctg ggcagtcaca ccatggattt 1680
ttttgaaatg tgtgccagtc tgattactac tttagcccgt tgatctgtct ctagtttctt 1740
tctgttattg cactatgaaa atcagttata ttctttaaat ttttatctta cttttggata 1800
atatccactg caatactaata tgagaaacat gaattatttc caggggcaca caatgctatt 1860
gaaattactg aaaaacaaat atctgacatc ttatttactt gtagaaatct gtaattctat 1920
tgtgcctatg ataaattcac ataggcaata tctttaatag gttaatatca atgaagattt 1980
ttaattacaa taatgagttc actacagacg attaacacac cacactggcg aaccatctca 2040
atgtaagggt ggtttggcaa cacctccttg ctttgctggt tgggtgtagta aatctagttt 2100
acttcctaaa tttcagtagg ctttatgctg tgtttatcgc ccaatttatt ttaacaaaag 2160
aagattaaaa agtaagaac cacgagtaag atattattta aatgttgaaa tcttaaaacc 2220
tgcctccaag atttcagaag ccaagttttt ctaacagtat ttgtacaaat actgcctagt 2280
gtattcaaca gaagactgtg gtcattgtaac aggtaaccac aattttcagg tttcttaaaa 2340
acagctgtaa ctaactcagg atttttatct tgagatttcc ctgaataata tatttatctt 2400
aagagccttc aagtttcaaa ttaatatattg aacatctgga attgcaacaa cttttgtctt 2460
ttacataaac ttacgtcatt taaaaaatgt cttcaaaatc tacctttctc aaattctttt 2520
tgcctctatt tatttttgca tttcaccaac agtgataaaa tagttaaatg aaacaaagca 2580
aagtatcaac agtcccttaa atgagaatcc ttatctttga tctttatttt ctgtgttagg 2640
tgttagggtc ctggtgcagc tcataatgct aattcttcat tgggaagccac tcccttcacc 2700
tcacctcaac tagtcactat tgtctttgtt cattgtttga tcctgagtgg ttgattgata 2760
tagctttgaa tcttttctag tccaagtttg aaaacactgt tctggcccta agggctggct 2820
atgaccttta ctgttgaacc tgatagggca ggggaagcttt gaacatcaag aaaaaatttt 2880
tatcttaaat aaataaatat atatatccac acaccagtgc ttttaagcaa aaaccagttt 2940
ttttgtttgt ttgttttgct ttgtgcaggt tttctttaag attaaacacc tatagcaggg 3000
tagataatag tttattgatt atattttgtt ttagttgtta tttttatggt gtaattcact 3060
tatttacctg gannnnnnn
3079

```

<210> 975

<211> 1566

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1566)

<223> n = A,T,C or G

<400> 975

```

nctataggga gtcgaccac ggcgtccggc ctttcttctt ttaatctccc ttctgtcagt 60
tgattttcag gcaaccttca gaaggcagag aagacgtctg cccttggtc ctgcactagc 120
gacttaaagg atgactcctg ttaagtttca ttatcctagt atcagcctga atggactagg 180
acacattttt attttaaagt ttgagctcta cagacagcaa cacagcttgg 240
ggagccacct ctgtcaacaa gggaggagaa agttgagaag tgccatgaaa atgtccctgc 300
ttcatactgg gcctctcagc aaacttctct tgotgacagg aattatttcc ctctatgatt 360
gtatttttaa gaggcgccta gattatgatc agaagttgca ccgagatgac agagaacatg 420
caaaaagcct gggacttcat gttaacgaag aggaacagga gaggcgggtt ggagtgtgta 480

```



```

cgctcttctgt ctatgggaag cgcacatcaatc agccattga gcccctaaac cgggactttg 540
gccgtgccaa ccatgtgcag gctgacttct acaggaagaa cgacatcccc agcctcaagg 600
aaccgcggtt tgggcacatt gctccatcct gaagcatccc cgtggccccc agggcatgtc 660
cgataccctg tggcctggca agtttgcaca gcgagaaggt ggcatctgga gcctcctttc 720
cccttctcat gacgcctagg agcttggcta tgctgtgtt gcatctctac agtgggacac 780
atgaacacgt tagcagcccc cctcaggttg ctgggttagg agcctgacca acaacacctt 840
tagtacatgt gaagagtctc tgatgtgatg attttcagct ggaattatth ttgatcaaat 900
gaatctggag accgattcat tgtgagcacc tgaataaaat gaaaactttg tttcccttg 960
gtaactgttg ggttggtttc tgttactggt ctctctacat ttgccaggat tctttgggga 1020
ggcagtcaca ggagtgggt gcagttgctt tccccacgag ttagggggaa tcctgtgtgc 1080
tgaacacaaa caaccctgac atgttccctt ctccaagagg agatgtgatg acaattgtct 1140
tttggcacaa ttgaactcta gaaactccat ttttgtttt ccaggaggtc gaatcccaaa 1200
taacagaatt ttgtgcagta gggaccagga gccctagtaa ggatgggtgg ccctgggtgc 1260
cagcaatgct cctattact gctcagagag agggggccag tcatgggaag aggctagatt 1320
tcggtgttca acaaacttgg gtaaaattct gggttctgca ttttctagat ttgtgttcta 1380
gggcaagtca tatcatctac atgagcagac atttcctcat atttaaagt gaatttccaa 1440
acctagaaga gttcatgcgg gaggcaatga gctgtggag cacaggcata acacaggtag 1500
ctgcccgggc ggccgctcga tttgtattg gagcacaacc tcttttggac catcaatata 1560
cagtgc

```

<210> 976

<211> 2044

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2044)

<223> n = A,T,C or G

<400> 976

```

nnnnnnctgc gcgctgctgt ttggggaggg ggtgtgtgga gccgggtcct gtgtccgcag 60
tggctgctgt cggggggtcg cctgttcgcy gaggtgcgga gagactcctt gggggtcgag 120
cactgtgggt ggcagcccc agtgttttgg ataccaatgc ataggactcc atagtaatcg 180
aatttaccag aggcgaacgt catgagcata gtgactccc atgggggttga tacagcagag 240
acgtcatact tggaaatggc tgcaggttca gaaccagaat ccgtagaagc tagcctgtg 300
gtagttagaga aatccaacag ttatccccac cagttatata ccagcagctc acatcattca 360
cacagttaca ttggtttgcc ctatgcggac cataattatg gtgctcgtcc tcctccgaca 420
cctccggtt cccctcctcc atcagtcctt attagcaaaa atgaagtagg catatttacc 480
actcctaatt ttgatgaaac ttccagtgct actacaatca gcacatctga ggatggaagt 540
tatggtactg atgtaaccag gtgcatatgt ggttttacac atgatgatgg atacatgatc 600
tgtttgaca aatgcagcgt ttggcaacat attgactgca tggggattga taggcagcat 660
attcctgata catctctatg tgaacgttgt cagcctagga atttggataa agagagggca 720
gtgctactac aacgccggaa aagggaat atgtcagat gtgataccag tgcaactgag 780
agtgggtgat aggttccctgt ggaattatat actgcatttc agcactactc aacatcaatt 840
actttaactg cttcaagagt ttccaaagtt aatgataaaa gaaggaaaaa aagcggggag 900
aaagaacaac acatttcaaa atgtaaaaag gcatttcgtg aaggatctag gaagtcatca 960
agagttaagg gttcagctcc agagattgat ccttcatctg atggttcaaa ttttggatgg 1020
gagacaaaga tcaaagcatg gatggatcga tatgaagaag caaataacaa ccagtacagt 1080
gaggtgtgtc agagggagc acaaagaata gctctgagat taggcaatgg aaatgacaaa 1140
aaagagatga ataaatccga tttgaatacc aacaatttgc tcttcaaacc tcctgtagag 1200
agccatatac aaaagaataa gaaaattctt aaatctgcaa aagatttgcc tcctgatgca 1260
cttatcattg aatacagagg gaagtttatg ctgagagaac agtttgaagc aaatgggtat 1320
ttctttaaaa gaccataccc ttttgtgtta ttctactcta aatttcatgg gctagaaatg 1380
tgtgttgatg caaggacttt tgggaatgag gctcgattca tcaggcgggtc ttgtacaccc 1440
aatgcagagg tgaggcatga aattcaagat ggaaccatac atctttatat ttattctata 1500
cacagtattc caaagggaac tgaaattact attgcctttg attttgacta tggaaattgt 1560
aagtacaagg tggactgtgc atgcctcaaa gaaaaccag agtgccctgt tctaaaacgt 1620
agttctgaat ccatggaaaa tatcaatagt gggtatgaga ccagacggaa aaaaggaaaa 1680
aaagacaaag atatttcaaa agaaaaagat acacaaaatc agaattattac tttggattgt 1740
gaaggaaacga ccaacaaaaat gaagagccca gaaactaaac aaagaaagct ttctccactg 1800

```

```

agactatcag tatcaaataa tcaggaacca gattttattg atgatataga agaaaaaact 1860
cctattagta atgaagtaga aatggaatca gaggagcaga ttgcagaaag gaaaaggaag 1920
atgacaagag aagaaagaaa aatggaagca atttggcaag cttttgccag acttgacaca 1980
cacaccacag ggggcgccaa aattccctcg cgggccaact agtccagtt cttgacannn 2040
nnnn 2044

```

```

<210> 977
<211> 1566
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(1566)
<223> n = A,T,C or G

```

```

<400> 977
nctataggga gtcgaccac gcgtccggcc ctttcttctt ttaatctccc ttctgtcagt 60
tgattttcag gcaaccttca gaaggcagag aagacgtctg cccttggctc ctgacttagc 120
gacttaaagg atgactcctg ttaagtttca ttatcctagt atcagcctga atggactagg 180
acacattttt attttaaagt ttgagctcta gcaatggagt cagacagcaa cacagcttgg 240
ggagccacct ctgtcaacaa gggaggagaa agttgagaag tgccatgaaa atgtccctgc 300
ttcatactgg gcctctcagc aaacttctct tgctgacagg aattatttcc ctctatgatt 360
gtatttttaa gaggcgccta gattatgac agaagttgca ccgagatgac agagaacatg 420
caaaaagcct gggacttcat gttaacgaag aggaacagga gaggccggtt ggagtgtgta 480
cgtcttctgt ctatgggaag cgcataatc agccattga gccctaatac cgggactttg 540
gccgtgccaa ccatgtgcag gctgacttct acaggaagaa cgacatcccc agcctcaagg 600
aaccggctt tgggcacatt gctccatcct gaagcatccc cgtggccccc agggcatgtc 660
cgataccctg tggcctggca agtttgaca gcgagaaggt ggcactctgga gcctccttcc 720
cccttctcat gacgcctagg agcttggcta tgctgtgtt gcatctctac agtgggacac 780
atgaacacgt tagcagcccc cctcaggttg ctgggttagg agcctgacca acaacacctt 840
tagtacatgt gaagagtctc tgatgtgatg attttcagct ggaattattt ttgatcaaat 900
gaatctggag accgattcat tgtgagcacc tgaataaaat gaaaactttg tttccccttg 960
gtaactgttg ggttggtttc tgttcaactg ctctctacat ttgccaggat tctttgggga 1020
ggcagtcaca ggagtgaggt gcagttgctt ttcccacgag ttaggggaac tctgtctgcc 1080
tgaacacaaa caacctgac atgttccctt ctccaagagg agatgtgatg acaattgtct 1140
tttggcacaa ttgaactcta gaaactccat ttttgtttt ccagaggtct gaatcccaa 1200
taacagaatt ttgtgcagta gggaccagga gccctagtaa ggatgggttg ccctgggtgg 1260
cagcaatgct cactattact gctcagagag agggggccag tcatgggaag aggctagatt 1320
tcggtgttca acaaacttgg gtaaaattct ggttgctgca ttttctagat ttgtgttcta 1380
gggcaagtca tatcatctac atgagcagac atttccctcat atttaaagtg gaatttccaa 1440
acctagaaga gttcatgcgg gaggcaatga gctgctggag cacaggcata acacaggtag 1500
ctgccgggc ggccgctcga tttgctattg gagcacaacc tcttttggac catcaatata 1560
cagtgc 1566

```

```

<210> 978
<211> 1116
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(1116)
<223> n = A,T,C or G

```

```

<400> 978
nagtcgtata gaccaccttg tttgttgttg atgggtagac atgaagcaga tttatgtatg 60
ttgtctctgc acgcatgtac tatagatgtg ccatcatata tattgtgttg gtccggaact 120
ataattgtgc cttgcagcac gccagtgagg ggaccacag tgtggacctc ttttttgagg 180
caaattggtat atttatttaa actccccctg gctttaggtg gcaccaccac gttgtgtgca 240
aattcgccac ccaggtgca agtttaggtt ctgccagagc cgccaatctc ctgggggttt 300

```

```

cgttctgttg gccttccttg tgtcctttgg tgatattggt ccatctgggt cgtcagtact 360
ggtttcgggc gccttgccaa tcctgttttt gtcctgtctt gtttttcaga ttcttcttct 420
tcattctgaac tgctttctgc tttcttggtt ttattcttag gaactttctt tggtagctgc 480
agattaattc ctgcatctgc tgtccagtca gagtaatcac tggagtagtc actagaactg 540
ccatcactgt gccatgctct ctcttcttct tcggatgttc caccactgac agcaactact 600
tcgccttcat ctgaagaact actgccattt tctatctctt ctgagggctt aggagtctct 660
tccaatgcag atcttgtacg ataattgtgt tgatttgtct gttgcttttt ggattctcca 720
agatccagga aatgctcatg agcatgattc tttgagacag tgggtatttt attctctttt 780
ggaacagtta agtgttttct tttctcttct gacctgtaag tctttatttc ttcttctccc 840
tttgagttc tccattcttc ttgcctactg gctacaccag ctgatatgctc gggtagctac 900
acccttcgac tccaagctac cagatcccgc tctgtggcta tttcacttct tggtagcttg 960
ctgtgcattt gccgtacacc ttcaatttgt ccactacgct ttagtcctac gtttgggtgg 1020
gaatgaacct ctgaggtaga acttatggag cctctactta aacggctggg attactgata 1080
cctgcttcac cagaacgtct caggtctgtg gaannn 1116

```

<210> 979

<211> 1116

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1116)

<223> n = A,T,C or G

<400> 979

```

nagtcgtata gaccaccttg tttgttggtg atgggtagac atgaagcaga tttatgtatg 60
ttgtctctgc acgcatgtac tatagatgtg ccatcataca tattgtgtgg gtccggaact 120
ataattgtgc cttgcagcac gccagtgagg ggaaccacag tgtggacctc ttttttgagg 180
caaattggtat atttatttaa actccccgtt gctttagggt gcaccaccac gttgtgtgca 240
aattcgccac ccaggtgca agtttaggtt ctgcgagcgc cgccaatctc ctggggggtt 300
cgttctgttg gccttccttg tgtcctttgg tgatattggt ccatctgggt cgtcagtact 360
ggtttcgggc gccttgccaa tcctgttttt gtcctgtctt gtttttcaga ttcttcttct 420
tcattctgaac tgctttctgc tttcttggtt ttattcttag gaactttctt tggtagctgc 480
agattaattc ctgcatctgc tgtccagtca gagtaatcac tggagtagtc actagaactg 540
ccatcactgt gccatgctct ctcttcttct tcggatgttc caccactgac agcaactact 600
tcgccttcat ctgaagaact actgccattt tctatctctt ctgagggctt aggagtctct 660
tccaatgcag atcttgtacg ataattgtgt tgatttgtct gttgcttttt ggattctcca 720
agatccagga aatgctcatg agcatgattc tttgagacag tgggtatttt attctctttt 780
ggaacagtta agtgttttct tttctcttct gacctgtaag tctttatttc ttcttctccc 840
tttgagttc tccattcttc ttgcctactg gctacaccag ctgatatgctc gggtagctac 900
acccttcgac tccaagctac cagatcccgc tctgtggcta tttcacttct tggtagcttg 960
ctgtgcattt gccgtacacc ttcaatttgt ccactacgct ttagtcctac gtttgggtgg 1020
gaatgaacct ctgaggtaga acttatggag cctctactta aacggctggg attactgata 1080
cctgcttcac cagaacgtct caggtctgtg gaannn 1116

```

<210> 980

<211> 1954

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1954)

<223> n = A,T,C or G

<400> 980

```

nnatcaacgc agagtggcca ttacggcggg ggctgcagac gtacttagaa aaggggtgca 60
tactggatat tcaggctagg agaagaacgc aaaaagcagt gacgtacatt attctctgca 120
tatatttact aggggaaatt gtgcgtctcc ctattctgag tcttggcagg aatggactgg 180
tccaacctta tacagagagc agtagagcgc ggcagtatag agagtacctc acgaagggga 240

```

```

cgtgggaaag  tgttagcggg  gaacgctggg  aaactcccgg  cctccgccac  catcttgctt  300
tcctttaatc  cggcagtgac  cgtgtgtcag  aacaatcttg  aatcatgaag  ctactaacca  360
gagccggctc  tttctcgaga  ttttattccc  tcaaagttgc  ccccaaagtt  aaagccacag  420
ctgcgccctg  aggagcaccg  ccacaacctc  aggaccttga  gtttaccaag  ttaccaaatg  480
gcttggtgat  tgcttctttg  gaaaactatt  ctctgtatc  aagaattggt  ttgttcatta  540
aagcaggcag  tagatatgag  gacttcagca  atttaggaac  caccatttg  ctgctctta  600
catccagtct  gacgacaaaa  ggagcttcat  ctttcaagat  aaccctgga  attgaagcag  660
ttggtggcaa  attaatgtg  accgcaacaa  gggaaaacat  ggcttatact  gtggaaatgcc  720
tgccgggtga  tgttgatatt  ctaatggagt  tcctgctcaa  tgtcaccaca  gcaccagaat  780
ttcgctgttg  ggaagtagct  gaccttcagc  ctcagctaaa  gattgacaaa  gctgtggcct  840
ttcagaatcc  gcagactcat  gtcattgaaa  atttgcattg  agcagcttac  cggaatgcct  900
tggtaatcc  cttgtattgt  cctgactata  ggattggaaa  agtgacatca  gaggagtta  960
attacttctg  tcagaacct  ttcacaagt  caagaatggc  tttgattgga  cttggtgtga  1020
gtcatcctgt  tctaaagcaa  gttgtgaac  agtttctcaa  catgaggggt  gggcttggt  1080
tatctggtgc  aaaggccaac  taccgtggag  gtgaaatccg  agaacagaat  ggagacagtc  1140
ttgtccatgc  tgcttttgta  gcagaaagt  ctgtcgcg  aagtgcagag  gcaaatgcat  1200
ttagtgttct  tcagcatgtc  ctcggtgctg  ggccacatgt  caagaggggc  agcaacacca  1260
ccagccatct  gcaccaggct  gttgccagg  caactcagca  gccatttgat  gtttctgcat  1320
ttaatgccag  ttactcagat  tctggactct  ttgggattta  tactatctcc  caggccacag  1380
ctgctggaga  tgttatcaag  gctgcctata  atcaagtaaa  aacaatagct  caaggaaacc  1440
tttccaacac  agatgtccaa  gctgccaaga  acaagctgaa  agctggatac  ctaatgtcag  1500
tggagtcttc  tgagtgtttc  ctggaagaag  tcgggtccca  ggctctagtt  gctggtctt  1560
acatgccacc  atccacagtc  cttcagcaga  ttgattcagt  ggctaagtct  gatatacata  1620
atgcccga  gaagtttgtt  tctggccaga  agtcaatggc  agcaagtgga  aatttgggac  1680
atacaccttt  tgttgatgag  ttgtaatact  gatgcacaca  ttacaggaga  gagctgaacg  1740
ttctctcagc  ccagagcagc  aaacacatga  aagtcagaag  tctctaata  atcatttgtc  1800
ttttttccag  tgaggtaaaa  taaggcataa  atgcaggtaa  ttattcccag  ctgacctaaa  1860
gtcaataaaa  cattctgttt  aagtgttaaa  cttacgcggt  aatacccggt  ttggcgga  1920
cccttcgcac  acaaattttt  cccccacagc  tccn  1954

```

<210> 981

<211> 164

<212> DNA

<213> Homo sapiens

<400> 981

```

actatcttac  ctatcgaagg  cttgagtgac  ttgccccaaa  taagttttac  gatagaacaa  60
gtggtaggac  ttactgtttt  gagaatctgg  tgctctctgt  gggagagaga  tctgggagtt  120
aaaatcattg  tottaaaagc  agagcctgag  acaggcatga  agtg  164

```

<210> 982

<211> 4033

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(4033)

<223> n = A,T,C or G

<400> 982

```

gggggagggg  gccgggtggg  gaggaggagg  cgggcagccg  cgccgcgcg  gcactttttt  60
aattttttcg  ggtgccgcag  cagcgacccc  tcggcgccga  tgtccctgat  ccctggagcg  120
acgacggccg  ctgcctaagc  tggaaagagg  aatgccagct  cctgagcagg  cctcattggt  180
ggaggagggg  caaccacaga  ccgcgcagg  agctgcctcc  actggcccag  gcatggaacc  240
cgagaccaca  gccaccacta  ttctagcatc  cgtgaaggag  caggagcttc  agtttcagcg  300
actcaccgga  gaactggaag  tggaaaggca  gattgttgcc  agtcagctag  aaagatgtag  360
gcttgagaca  gaatcaccaa  gcatcgccag  caccagctca  actgagaagt  catttccttg  420
gagatcaaca  gacgtgccaa  atactggtgt  aagcaaacct  agagtttctg  acgctgtcca  480
gcccacaac  tatctcatca  ggacagagcc  agaacaagga  accctctatt  caccagaaca  540
gacatctctc  catgaaagt  agggatcatt  gggtaactca  agaagttcaa  cacaaatgaa  600

```

ttcttattcc	gacagtggat	accaggaagc	agggagtttc	cacaacagcc	agaacgtgag	660
caaggcagac	aacagacagc	agcattcatt	cataggatca	actaacaacc	atgtggtgag	720
gaattcaaga	gctgaaggac	aaacactggg	tcagccatca	gtagccaatc	gggccatgag	780
aagagttagt	tcagttccat	ctagagcaca	gtctccttct	tatgttatca	gcacaggcgt	840
gtctccttca	agggggtctc	tgagaacttc	tctgggtagt	ggatttggct	ctccgtcagt	900
gaccgacccc	cgacctctga	accccagtg	atattcctcc	accacattac	ctgctgcacg	960
ggcagcctct	ccgtactcac	agagaccgcg	ctcccaca	gctatacggc	ggattgggtc	1020
agtcacctcc	cggcagacct	ccaatcccaa	cggaccaacc	cctcaatacc	aaaccaccgc	1080
cagagtgggg	tccccactga	ccctgacgga	tgacacagact	cgagtagctt	ccccatccca	1140
aggccaggtg	gggtcgctcg	cccccaaacg	ctcagggatg	accgccgtac	cacagcatct	1200
gggaccttca	ctgcaaagga	ctgttcatga	catggagcaa	ttcggacagc	agcagtatga	1260
catttatgag	aggatggttc	cacccaggcc	agacagcctg	acaggcttac	ggagtcccta	1320
tgctagttag	catagttagc	ttgggcaaga	ccttcgttct	gccgtgtctc	ccgacttgca	1380
ctactactag	atatatgagg	ggaggacctc	ttacagccca	gtgtaccgca	gcccaccca	1440
tggaactgtg	gagctccaag	gatcgagac	ggcgttgtat	cgcacagggt	cagcagggtat	1500
tggaatctta	caaaggacat	ccagccaacg	aagtaccctt	acataccaaa	gaaataatta	1560
tgctctgaac	acaacagcta	cctacgcgga	gccctacagg	cctatacaat	accgagtgc	1620
agagtgcatt	tataacaggc	ttcagcatgc	agtgcgggct	gatgatggca	ccacaagatc	1680
cccatcaata	gacagcattc	agaaggaccc	cagggagttt	gcctggcgtg	atcctgagtt	1740
gcctgaggtc	attcacatgc	ttcagcacca	gttcccatct	gttcaggcaa	atgcagcggc	1800
ctacctgacg	cacctgtgct	ttgggtgaaa	caaagtgaag	atggagggtg	gtagggttag	1860
gggaatcaag	catctggttg	accttctgga	ccacagagtt	ttggaagttc	agaagaatgc	1920
ttgtggtgcc	cttcgaaacc	tcgttttttg	caagtctaca	gatgaaaata	aaatagcaat	1980
gaagaatggt	ggtgggatac	ctgccttggt	gcgactgttg	agaaaatcta	ttgatgcaga	2040
agtaaggag	cttggttagc	gagttctttg	gaatttatcc	tcattgtgat	ctgtaaaaat	2100
gacaatcatt	cgagatgctc	tctcaacctt	aacaaacact	gtgattgttc	cacattcttg	2160
atggaataac	tcttcttttg	atgatgatca	taaaattaaa	tttcagactt	cactagttct	2220
gcgtaacacg	acaggttgcc	taaggaaact	cagctccgcg	ggggaagaag	ctcgggaagc	2280
aatgcggtcc	tcgtagggc	tggttagact	ctcgttgtat	gtgatccaca	cgtgtgtgaa	2340
cacatccgat	tacgacagca	agacggtgga	gaactgcgtg	tgcaacctga	ggaacctgtc	2400
ctatcggtcg	gagctggagg	tgccccaggc	ccggttactg	ggactgaacg	aattggatga	2460
cttactagga	aaagagtctc	ccagcaaaga	ctctgagcca	agttgctggg	ggaagaagaa	2520
gaaaaagaaa	aagaggactc	cgcaagaaga	tcaatgggat	ggagtgtgtc	ctatcccagg	2580
actgtcgaag	tcccccaaa	gggttgagat	gctgtggcac	ccatcggttg	taaaaccata	2640
tctgactctt	ctagcagaaa	gttccaacct	agccaccttg	gaaggctctg	cagggctctc	2700
ccagaacctc	tctgctggca	actggaagtt	tcagcatat	atccgggcgg	ccgtccgaaa	2760
agaaaagggg	ctccccatcc	ttgtggagct	tctgagaatg	gataacgata	gagttgtttc	2820
ttcgtgggca	acagccttga	ggaatatggc	actagatggt	cgcaacaagg	agctcatagg	2880
caaatacgcc	atgcgagacc	tggtcaaccg	gctccccggc	ggcaatggcc	ccagtgtctt	2940
gtctgatgag	accatggcag	ccatctgctg	tgctctgcac	gaggtcacca	gcaaaaacat	3000
ggagaacgca	aaagccctgg	ccgactcagg	aggcatagag	aagctggtga	acataaccaa	3060
aggcaggggc	gacagatcat	ctctgaaagt	ggtgaaggca	gcagcccagg	tcttgaatac	3120
attatggcaa	tatcgggacc	tccggagcat	ttataaaaag	gatgggtgga	atcagaacca	3180
ttttattaca	cctgtgtcga	cattggagcg	agaccgattc	aatcacatc	cttccttgct	3240
taccaccaac	caacagatgt	cacccatcat	tcagtcagtc	ggcagcacct	cttcctcacc	3300
agcactgtta	ggaatcagag	accctcgctc	tgaatacgat	aggacccagc	cacctatgca	3360
gtattacaat	agccaagggg	atgccacaca	taaaggcctg	taccctggct	ccagcaaacc	3420
ttaccaaat	tacatcagtt	cctattcctc	accagcaaga	gaacaaaata	gacggctaca	3480
gcatcaacag	ctgtattata	gtcaagatga	ctccaacaga	aagaactttg	atgcatacag	3540
attgtatttg	cagtcctctc	atagctatga	agatccttat	tttgatgacc	gagttcactt	3600
tccagcttct	actgattact	caacacagta	tggactgaaa	tcgaccacaa	attatgtaga	3660
cttttattcc	actaaacgac	cttcttatag	agcagaacag	taccaggggt	ccccagactc	3720
atgggtgtag	catcaagatg	ccaacagag	gaactcttct	tttctaacct	tgttcagatt	3780
gaggtgaaaa	gtccatcttg	ctgatttgat	gattgaaatg	tgaaagtga	gtggaaggaa	3840
tgaatgaagt	gtgttttttt	tttctttttt	gaggaattat	caggggaagt	aggaaatgtt	3900
tgggagagga	ctttctaagc	tctatttacg	tgtagactc	tactccctta	tagactcctg	3960
tgctgggtga	aggcgtcggt	gacctgatta	gaggtttcag	aatgggtga	catgaaatgg	4020
gggatatgta	nnn					4033

<210> 983

<211> 2919

<212> DNA

<213> Homo sapiens

<400> 983

```

atggcccctg acgcttcaca cgcttccttg ccattcccaa acatccctgg aaatccaatg 60
aataccacgc agttaggga atcatttttt cagtggcaag tggagcagga agaaagcaaa 120
ttggcaaatg tttcccaaga ccagtttctt tcaaaggatg cagatggtga cacgttcctt 180
catattgctg ttgccaagg gagaagagca ctttctatg ttctagcaag aaagatgaat 240
gcacttcaca tgctggatat taaggagcac aatggacaga gtgcctttca ggtggcagt 300
gctgccaatc agcatctcat tgtgcaggat ctggtgaacc tcggggcgca ggtgaacacc 360
acagactgct ggggaagaac acctctgcat gtctgtgctg agaagggcca ctgccagggt 420
cttcaggcga ttcagaagg agcagtggga agtaatcagt ttgtggatct tgaggcaact 480
aactatgatg gcctgactcc cttcattgt gcagtcatag cccacaatgc tgtggtccat 540
gaactccaga gaaatcaaca gcctcattca cctgaagttc aggagctttt actgaagaat 600
aagagtctgg ttgataccat taagtgccta attcaaattg gagcagcggg ggaagcgaa 660
gatcgcaaaa gtggccgcac agccctgcat ttggcagctg aagaagcaaa tctggaactc 720
attcgctctt ttttgagct gccagttgc ctgtcttttg tgaatgcaaa ggcttacaat 780
ggcaacactg cctccatgt tgctgccagc ttgcagtatc ggttgacaca attagatgct 840
gtccgcctgt tgataggaa gggagcagac ccaagtactc ggaacttggg gaacgaacag 900
ccagtgcatt tggttccga tggccctgtg ggagaacaga tccgacgtat cctgaaggga 960
aagtcacatt aacagagc tccaccgtat tagctccatt agcttgagc ctggctagca 1020
acactcactg tcagttagc agtcctgatg tatctgtaca tagaccattt gccttatatt 1080
ggcaaatgta agttgtttct atgaaacaaa catatttagt tcactattat atagtgggtt 1140
atattaaaag aaaagaagaa aaatatctaa tttctcttgg cagatttgca tatttcatac 1200
ccaggtatct gggatctaga catctgaatt tgatctcaat ggtaacattg ccttcaatta 1260
acagtagctt ttgagtagga aaggactttg atttgtggca caaaacatta ttaatatagc 1320
tattgacagt ttcaaagcag gtaaatgtta aatgtttctt taagaaaaag catgtgaaag 1380
gaaaaaggta aatacagcat tgaggcttca tttggcctta gtccctggga gttactggcg 1440
ttggacaggc ttcagtcatt ggactagatg aaagggtgcc atggttagaa tttgatattt 1500
gcaaactgta tataattgtt atttttgtcc ttaaaaatat tgtacatact tggttgttaa 1560
catggtcata tttgaaatgt ataagtccat aaaatagaaa agaacaagtg aattgttgct 1620
atttaaaaaa attttacaat tcttactaag gagtttttat tgtgtaatca ctaagtcttt 1680
gtagataaag cagatgggga gttacggagt tgttccttta ctggctgaaa gatataatcg 1740
aattgtaaaag atgctttttc tcatgcattg aaattataca ttattttagt ggaattgcat 1800
gctttttttt ttttttctcc cgagacaggg ctttgctctg gcgccaggc tggagtacag 1860
ttggcatgatc ttggctcact tcagccttga cttgggctca agtgatcctc ctacctgagc 1920
cttctgagta actgggacta cagggtgtgca ctctcgcct ggctaatttt ttattttttg 1980
tacaggcagg atcttgccac cttgcccagg ctggtcttga actcctgagc tcatgccatc 2040
tgctgcctt agtctcccaa aatgctggga ttacaggagt gagccaccat gccggctgg 2100
cagttgcatg gaagagaaca cctctttatg gcttaccctc tagaatttct aatttatgtg 2160
ttctgttgaa atttttgttt ttttaccttt attgaaacaa caaaaagtca gtattgaaac 2220
atatcttctt gttttctgtt gtcaaatgat gataatgtgc catgatgttt tatatatatc 2280
attcagaaaa agttttattt ttaataaca ttctattaac attattttgc ttgccgctgg 2340
catgcctgag gaatgtattt ggctttgatt acacactaag tttttgtaat aaatttgact 2400
cattaaaaac cttttttttt taaaaaaaa aaaaagaaaa tctcattagt gaacttatct 2460
ttgcagctga gtacttaaat tcttttttaa aagataccct ttggattgat cacattgttt 2520
gaccagtat gtctttaga cacgttagtt ataatcacct tgtatctcta aatatgggtg 2580
gatatgaacc agtccattca cattggaaaa actgatggtt ttaaataaac taattcacta 2640
atattatttg tcttacctgc attttctttt cctagtgcct tatttccta gatagaaaaa 2700
gtactattga tgatttttaa tacctttgag ttagttaatt tatgttaatt tgggtttttt 2760
ggagaacatg tttcctgaaa gtatacaaga ttaacatca aaatctattt gctaagttaa 2820
ctaggagaag tctgttaggt tttgaaatta tcatggaagt ttaatagatg ctgtcgatca 2880
ttcacatgtt tagatgctta cggacgcgtg ggtcgactc 2919

```

<210> 984

<211> 1181

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1181)

<223> n = A,T,C or G

<400> 984

```

agggagtcga ccccgcgctcc gggctaccct cgggcttccc ctgcccgcga ttgtgatcca 60
gcccgcctag cgctcccctgc cgcccattgt gacgcctgcc agccgcaggc tgggtccccg 120
aggcgggcgg catttaggct cgggtctccac agccatggcc gcgacgcagg agctgctgct 180
gcagttgcag aaggataacc gagatggctg ccagcggaag caggagctag agaagctgat 240
gcgcgggctc gaggccgaga gcgagagcct gcctcaacca gcgcctgcag gacctgagcg 300
agcggggagcg gaggctgctg cggaggcgaa gccaggaagc gctgcttctg caaggggagg 360
tgcgcgaggc ggcgcgggag cgcgcgcagc ggggtgcgcag aagactggag gaggcggagc 420
gccacaagga ggacttgaag cccggtaaac cccgtectta cgagccccgc ccctagctct 480
tctactacgg aggggaactg cagagccaga agagcacgga gcagcaactc gcagcccaat 540
tggtgacgct gcagaatgaa ctggagctgg cggagaccaa atgcgccttg caggaggaga 600
agctgcagca ggacgcgctg cagacagcgg aggcctgggc catattccag gacagaccg 660
tagtctcgca ggtgcggccc cactcagacg ccaaggtgcc tcccgcctct cctccccag 720
acctggggcg gtgtgacggg cagcttcgcg gagtgcagta cagcaccgag tcgctcatgg 780
aggagatggc cagggcggac cgagagacgc ggctgttcgg cggccctcgc gcgtggcca 840
tcaggcggtg cgtgctgggc gcgctgcagg tgctgctgac gctgcgcctc ctcttcctgg 900
ggctgtcgct gctctggacg gtgctgttgg acccgggcgc cgtctccgcg tggctctgga 960
gcctcacctc ggagacgacg ctgcgccgcc tgcgctacac gctgtccccg ctgctggagc 1020
tgcgcgctaa cgggcttctg ccaacctaa gtcagcgccc cgcgcctggc tccagggtga 1080
ctccagggca cctggcttta tttctgggtg actcctctcc tgagagtgtg gaccaagggt 1140
gcctaataaa ctcaagggat gaannnnnnn nnnnnnnnnn n 1181

```

<210> 985

<211> 1351

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1351)

<223> n = A,T,C or G

<400> 985

```

ccccccctcg gaagtcttct agaattaatt aacgcggggg cacacgctgg tcacgcggtc 60
agctattgac acttctctgt gggatccgag tgaggcgacg gggtaggggt tggcgctcag 120
gcggcgacca tggcgatatca cggcctcact gtgcctctca ttgtgatgag cgtgttctgg 180
ggcttcgctg gcttcttggg gccttgggtc atccctaagg gtcctaaccg gggagttatc 240
attaccatgt tggtagacctg ttcagtttgc tgctatctct tttggctgat tgcaattctg 300
gcccaactca accctctctt tggaccgcaa ttgaaaaatg aaacctctg gtatctgaag 360
tatcattggc cttgaggaag aagacatgct ctacagtgtc cagtctttga ggtcacgaga 420
agagaatgcc ttctagatgc aaaatcacct ccaaaccaga ccacttttct tgacttgctc 480
gttttgcca ttagctgcct taaacgttaa cagcacattt gaatgcctta ttctacaatg 540
cagcgtgttt tcctttgcct ttttttgcac tttgggtgaat tacgtgcctc cataacctga 600
actgtgccga ctccacaaaa cgattatgta ctcttctgag atagaagatg ctgttcttct 660
gagagatacg ttactctctc cttggaatct gtggatttga agatggctcc tgccttctca 720
cgtgggaatc acgtgaagtg tttagaaact gctgcaagac aaacaagact ccagtggggg 780
ggtcagtagg agagcacgtt cagagggaa ggcatttca acagaatcgc accaaactat 840
actttcagga tgaaattctt ctttctggca tctttggata aatattttcc tcctttctat 900
ggaaaaaaa aaaaaaaac aaatatggct tatttgcca tatgcctat atggggggat 960
acaaatactg gccgccgttt cacacagcgg totggagaaa cctgggggtac ccactttaag 1020
cctttgggga aacacctctt tacacatggg cggaaaacaa agaggccccc ggatgggctt 1080
tcaaacattg ggctcttctt agtctatgca aattagcgcg catatttcta atatcgctaa 1140
atatgtaaac cgcctttttt occatgcgcg atgggagaa ctctaataa aagaaaatcg 1200
cccatnacgt gggggtctcc tttcaacaca ctctttagac aggttctctc ccgtgggccc 1260
ttttttgggg gccctcgcgc acacccccac aactttttgg ggggccactt tcctgaaggg 1320
cccattatt ttcactcggg aagagccctg c 1351

```

<210> 986

<211> 2961
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(2961)
 <223> n = A,T,C or G

<400> 986

```

nnggcgaaga ggccctggcgc tgccgctccc ggcgatgctc cctgacttca ccaaggtcac 60
gctgcagccc gcaggaatga aaatccactt ctccgcattt tcgaggtgac ctggaagcgg 120
ttcaactgct ctggcttctc agaagaggag gggaccgggc ggtaacgagg agccaagggg 180
aggagactgc tcgcaaaacc ccggaaaagc ttcccgatc cactctgcc a gctccgtgc 240
gcctccagac atgcgcagta gcctccccgc cgttgccggc ggccggcggc gtggctagcg 300
tgccggctga gaggccagag ccggacgttc cggccgcttc gggctggcgg ctggagagcg 360
ctcgggtcat gtctgcccag ggggactgcg agttcctggt gcagcgagcc cgggagttgg 420
tgccgcaaga cctgtgggca gccaaaggcg ggctgatcac ggcccgcagc ctctaccgcg 480
cagactttaa catccagtat gagatgtaca ccacgagcgc gaatgcagag cggaccgcca 540
ccgcccggag gctgctgtac gacatgtttg tgaatttccc agaccagccg gtgggtgtgga 600
gagaaatcag cattattaca tcagcattaa ggaacgattc acaggacaaa caaaccctaa 660
ttttaagaag ttattttgaa actcttctcg gtcgagtcca gtgtgaaatg ttactaaagg 720
tcacggaaca atgcttcaac acgttagaac gatcagaaat gttgcttcta cttttgagcg 780
gcttccctga aacggtgggt cagcatgggg ttggccttgg ggaggcacta ttagaggctg 840
aaactattga agaacaagaa tctccagtga actgctttag aaaattatgt gtttgtgatg 900
tccttcctct aataattaac aacctatgat ttcgattacc tgccaattta ttgtataagt 960
acttgaacaa agcagctgaa ttttatatca attatgtcac taggtctact caaatagaaa 1020
atcagcatca aggcgcccag gatacatctg atttaatgtc acctagcaaa cgtagctctc 1080
agaagtacat aatagaaggc ctgacggaaa aatcatccca gatcgtggac ccttgggaga 1140
ggttgtttta gattttgaat gttgttggaa tgagatgtga atggcagatg gataaaggaa 1200
gacgaagcta tggagatatt ttgcatagaa tgaaggatct ctgcagatac atgaacaact 1260
ttgatagtga agcacatgca aaatataaaa accaagtggg gtattccacc atgctggctc 1320
tccttaagaa tgcattccag tatgtcaaca gcatacagcc atctctcttc caaggtccta 1380
atgccccgag ccaagttcca ctggttcttc ttgaagatgt atcgaatgtg tatgggtgatg 1440
tagaaattga tcgtaataaa cacatccata aaaagaggaa actagctgaa ggaagagaaa 1500
aaacctatga ttcagacgat gaagactgtt cggcgaaaag aagaaatcgt cacattgtag 1560
tcaataaagc cgaacttgct aactccactg aagtgttaga aagctttaaa ttggccaggg 1620
agagctggga gttgctctat tccctagaat tccttgacaa agaatttaca aggatttgct 1680
tgccctggaa gacggatact tggctttggt taagaatctt cctcactgat atgatcatct 1740
atcagggtca atataaaaag gcgatagcca gcctgcatca cttagcagct ctccagggat 1800
ccatttctca gccacagatc acagggcagg ggaccctgga gcacagagag gcgctcatcc 1860
agctggcgac gtgccacttt gcgctagggg agtacagaat gacatgtgaa aaagtccttg 1920
attgatgtg ctacatggt a cccccattc aagatggagg caaatcccag gaggaaccct 1980
cgaaagtaaa gcccaaattt agaaaagggt cggatctgaa gctcctgcct tgtaccagca 2040
aggctatcat gccatactgc ctccatttaa tgttagcctg ttttaagctt agagctttca 2100
cagacaacag agacgacatg gcattggggc atgtgattgt gttgcttcag caagagtggc 2160
cacggggcga gaatcttttc ctgaaagctg tcaataaaat ttgccaacaa ggaaatttcc 2220
aatatgagaa ttttttcaat tacggtacaa atattgatat gctggaggaa tttgcctact 2280
tgagaactca ggaaggtggg aaaattcatc tggaattact acccaatcaa ggaatgtgga 2340
tcaagcacca cactgtaact cgaggcatca ccaaaggcgt gaaggaggac tttcgcttgg 2400
ccatggagcg ccaggctctc cgctgtggag agaactgat ggtggttctg cacaggttct 2460
gcattaatga gaagatcttg ctccctcaga ctctgacctg agtggagacc tttccaccag 2520
acacagctcg ggcctgtgta attgtaggag aagacactca gcagtgattg ccattggcaca 2580
gagccgtggt cattgttgct gttacaaaga agaaaaccat ctgagttcta actccttggg 2640
tgcttaaaag tagttcccaa gagtctgaga agctatttct atttttaaga gtcatttttt 2700
gtaatttttg taaaacaaaa gtaccaatct gttttgtaaa taaaaatcat cctaaaattt 2760
gaagacaaaa gaaacaaaaa aacaaaaaaa catgtcggcc gcctcggccc agtcgactct 2820
agactcgagc aagcttatgc atgcggcgcc cacttgccca attcgcccta 2880
tagtgagtcg tattacaatt cactgggccc cgttttacaa cgtcgtgact gggctggcgt 2940
atagcgaaga ggccccaccn n 2961

```


<210> 987
 <211> 1797
 <212> DNA
 <213> Homo sapiens

.<220>
 <221> misc_feature
 <222> (1)...(1797)
 <223> n = A,T,C or G

<400> 987
 ncgcccagcg tttcccggga ccccaggtgt gttggcccca aacgcggtcc caactcttgg 60
 cgccccccc cccaggagtt tgggggtctta acaagagtcc cttgccgtga tgggggttggc 120
 caacccatgg ttatattgtac cgtccaaagt gccacccatg aagtgtcccg ccaattcaca 180
 agccgactta cttccagacc agtcattctg cttctgcggg ccccagtgcc acggtactgt 240
 cctgagtggg ttggaagggt ggtagccgct gatacaggga caggcagatg tgcagacact 300
 taccaccctg gtccaccgat cccaccccat gcttcacact cccagagctc ttgagataag 360
 accttaagaa ggatccttgg gcttgcattha aaaccacttt gctgtccgtg gaggtctaac 420
 aggacccaat agttgttact acaaaagtgc ttttgcaaat agggcaagtt agaagaagga 480
 ggtaatatga atattcttta gaaaaactca aatccatcgg cttatcaata cccaaagtct 540
 gaggctaccc agggcacaaat ttgggtccat gaatgctgag tggaggaggc agctggtgtg 600
 aggctgcgcc tgactcccag gagcatttag catctctttt tggcttgggg agtgtcaaa 660
 agccggactg ccttcctgca cagcagacag aaccagtaga tctgaggagc tacgaggaag 720
 gcattggcca cgttgacgta gaattgggat ctgaagggtta cttggagcag gcttagtccc 780
 tgctggcgcc cataggacca gtacatgaag gggaagagaa ggatccggca ggaaaggaag 840
 gtggccagcg tgaggattcc attcaccttg tacagaaggg tgtgctgctg ctttagctga 900
 atcagaaccc tgcccagcga cacaacggga gtgctcagtt ctgccgtgaa gatgcagccg 960
 acaagaagt ccccaaggtc tccccggagc ctctgtgcga ctggcacaag gacaaagaga 1020
 atgaccgcat gatgtgtgat catgaggcgg ttctgactta ggaagtttcg aagagtgagg 1080
 gagggcgccac ggttctgtgc tctggttcgg caccattcac agaggtagat gggtacgag 1140
 tcatagatca tgtatggaat cagaaaccac acatattccc gggcaagcca gtgcctgcg 1200
 gtgatcacgt cgtgcagga gcgaatgat acgatcccc agccggtggc cagcacggcg 1260
 tgcaccgagg aaaccagcct agcgcggggc gagaggagaa cagcgcgcgc gctcagtcg 1320
 gtccgaggac cgcaggggag cccgcccggc ccggcccttc ggctgactc tccccagccg 1380
 caggcagatg tggggagcgg gctccggagg ctcaatcggc catttccgc ccgcccgcgg 1440
 ccccgctccc accaggggag gacgcggagg actctcgga actcgggccc ccgggacggc 1500
 gagggagcag ccccggggct tcctgcgcgc ccccttttcc gccctgggccc ccgcgccgg 1560
 gtggggtgcg gtgggcagcg ccccgggcct cggggggcgt ctccggcgcg ccggttctg 1620
 gtgctgatca tcacgcagtc ggtgcggctc catccgggct gggagcggcg cagcggccag 1680
 gtgcagagcg cgaagagccc cggcaagaag tgccgcgccc cggccagcgt cagcagcatc 1740
 ggggctgcgg gtccggccgc ctctctgaca ccgtgtggct ggggttcggct cggcgcg 1797

<210> 988
 <211> 2169
 <212> DNA
 <213> Homo sapiens

<400> 988
 cggagtcgac ccacgcgtcc gagcacattg ctgaagatgc cgaccgcaaa tatgaagagg 60
 tggcccgtaa gctgggtcatc attgagagcg acctggaacg tgcagaggag cgggctgagc 120
 tctcagaagg caaatgtgcc gagcttgaag aagaattgaa aactgtgacg aacaacttga 180
 agtcaactgga ggctcaggct gagaagtact cgcagaagga agacagatat gaggaagaga 240
 tcaaggtcct ttccgacaag ctggaggagg ctgagactcg ggctgagttt gcggagagg 300
 cagtaactaa attggagaaa agcattgatg acttagaaga gaaagtggct catgccaaag 360
 aagaaaacct tagtatgcat cagatgctgg atcagacttt actggagtta aacaacatgt 420
 gaaaacctcc ttagctgcga ccacattctt tcattttgtt ttgttttgtt ttgtttttaa 480
 acacctgctt accctttaa tgcaatttat ttacttttac cactgtcaca gaaacatcca 540
 caagatacca cctaggtcag ggggtgggga aaacacatac aaaaaggcaa gcccatgtca 600
 gggcgatcct ggttcaaatg tgccatttcc cgggttgatg ctgccacact ttgtagagag 660
 ttttagcaaca cagtgtgctt agtcagcgta ggaatcctca ctaaagcagg agaagttcca 720
 ttcaaatgct caatgataga gtcaacagga aggttaatgt tggcacaatc aggtgtggat 780

```

tgggtgctact ttgaacaaca ctaattttatt ttgtcttgag ttttactaca agatgagact 840
atggatcccg catgcctgaa ttcactaaag ccaagggtcg agcggccgcc cgggcaggta 900
catgcatttg aatgacattt taggaacagt aaatattctt ttaaatactg caagttaaaa 960
atgttttctg acaaaactcc ctaaatacat aggtctagta aggggtttcca acaggatgat 1020
gggtgaggaa tccagcaagg agttgcattt agagagttct ttgaggaaaa gaaatccacc 1080
aaaaacgtgt ttcagtcaaa gtaacctgga caaagttacg tagtattatt ccagctttct 1140
ttcctgaact taaaaatgtt ctaccaacga atacctttct gttttttctg tctacaaaaa 1200
gcttatataa aagtcagaat ttctttatcc aagatctgat tttacccaat agatgttttc 1260
ataacatgta aatgtcattt gctatattgg gttggaatca tacggggaaa tggaggacac 1320
agggtagata aggaaggcaa ggaggaaatt aatatttgag cacctactat gtgctagggtg 1380
tgtattcata ctttgaacat atgattctag aggcaagagt gttattgaaa gggcagtgat 1440
cattgggaag acagcaggaa atggctattc tgtgagaaaa acaaatgaca agtttagggt 1500
ctgtactaag ttatctacta aacagcagggt gtctggctcc aaaaatctct agctaatacat 1560
atacaactaa gccattttct ttcctaattt gatggaacca aaatgaaatc ccaaagacac 1620
agttaccagg acagatctat taacgctaca tatgctggaa atatgtagag atagataaac 1680
atacaatatt actagtttta tttttttgtg tttctaacca aagatatatc tttggaagaa 1740
aatattaatg tataccaagc acaccttatt tgtatcaatt gagatgttga ttaccaatta 1800
agtggtttta aaccttatt taatttgaag aagagcagca atatacatta caatatttgg 1860
gtacacttta tatatatatg ggtaacatt ctgctatata tcatttcatt cgttttgaga 1920
aactgaaaac aaagggaat caagggtaat cggtagggtga tttgaggag atttccaacc 1980
tatatgtgag tcattgcagt atttcattat acagcccttt ctcccatata tttatttttt 2040
tgcaataagt cattttgacc caaatccagc ataaatagct tttcaccaat tcctaactta 2100
agacaactaa aatttacatc atgtggcagt ataaatttta aaattacagt tcgtacactt 2160
tgacatcaa                                     2169

```

<210> 989

<211> 1014

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1014)

<223> n = A,T,C or G

<400> 989

```

nnnnnaagac aggggtatga gctatcttcc attaaaaaac tgattctgga gcaaggagcc 60
aggaaccgtg gctcacacct gtaatcccag cactttgaga ggctaaggca aatagatccc 120
ttgactccag gagtttgaga ccagcctgag caacatggta aaaccccatc tgtacaaaaa 180
aaaaaaaaac tggcctgggc gacagaacaa gaccctgtnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnctca gttttctaataa taaattctaa catgaggcaa gcaactttac 300
ctgcaaagtt ttagtatgtg aatctaccaa caaacaaaac aaaactccat tttgcatcat 360
tatccaagat tgagaataaa aggatctgac aaatttatcc tcacacataa aggtactaga 420
aggtcaagtt agagatctaa tgagaaagtg atatacatac tacataattg ttctgttggt 480
taatatgccc aaaataatag ttactatcat tacatcttac agaaacaaaa actttaagct 540
tattactttt cagaaggaaa aaagtatcct ataactgaaa ataattttcg ccacaatagc 600
aaaatagaaa aaataaatct tcctgaaaca ttagcaagag attttagttt ttatttgttt 660
aaagagtata ggtggtggtt tcaagaaaag acttttgcta aaagcagcta gcaataagat 720
tatggctatc aaaccagttt ctttcataga aagtgaccat tccttgaagt gctactgttt 780
ttgaaagttt cttagaacag tctcagcatt ctaaacagtc ttagtttcta catatttggt 840
gttgcaatct tgggcaggaa aatcactaat aacaggaaac agaggccggg cacggtggct 900
aacgcctgtc ttcccagcac tttgggaggg tgaggtgggc agatcacaag gtcaggagtt 960
tgagaccagc ctgaccaaca ggggtgaaacc ccatctctac taaaaatann nnnn 1014

```

<210> 990

<211> 5168

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(5168)

<223> n = A,T,C or G

<400> 990

```

ccgcgcaggt acgcggggga cgcgcgtctg tggagaagcg gcttggtcgg ggggtggtctc 60
gtgggggtcct gcctgttttag tcgctttcag ggttcttgag ccccttcacg accgtcacca 120
tggaagtgtc accattgcag cctgtaaatg aaaatatgca agtcaacaaa ataaagaaaa 180
atgaagtgtc taagaaaaa cgtgtctgtt aaagaatcta tcaaaagaaa acacaattgg 240
aacataat ttt gctccgcca gacacctaca ttggttctgt ggaattagtg acccagcaaa 300
tgtgggttta cgatgaagat gttggcatta actataggga agtcactttt gttcctgggt 360
tgtacaaaat ctttgatgag attctagtta atgctgcgga caacaaacaa agggacccaa 420
aaatgtcttg tattagagtc acaattgatc cggaaaacaa ttttaattagt atatggaata 480
atggaaaagg tattcctgtt gttgaacaca aagttgaaaa gatgtatgtc ccagctctca 540
tatttggaca gctcctaact tctagtaact atgatgatga tgaaaagaaa gtgacaggtg 600
gtcgaatgg ctagggagcc aaattgtgta acatatcag taccaaaatt actgtggaga 660
cagccagtag agaatacaag aaaatgttca aacagacatg gatggataat atgggaagag 720
ctgggtgagat ggaactcaag cccttcaatg gagaagatta tacatgtatc acctttcagc 780
ctgatttgtc taagtttaaa atgcaaagcc tggacaaaga tattgttgca ctaatgggtca 840
gaagagcata tgatattgct ggatccacca aagatgtcaa agtctttctt aatggaaaata 900
aactgccagt aaaaggattt cgtagtattg tggacatgta tttgaaggac aagttggatg 960
aaactggtaa ctcttgaaa gtaatacatg aacaagtaaa ccacaggtgg gaagtgtgtt 1020
taactatgag tgaaaaaggc tttcagcaaa ttagctttgt caacagcatt gctacatcca 1080
aggggtggcag acatgttgat tatgtagctg atcagattgt gactaaactt gttgatgttg 1140
tgaagaagaa gaacaagggt ggtgttgtag taaaagcaca tcaggtgaaa aatcacatgt 1200
ggatttttgt aaatgcctta attgaaaacc caacctttga ctctcagaca aaagaaaaca 1260
tgactttaca acccaagagc tttggatcaa catgccaat gagtgaaaaa tttatcaaaag 1320
ctgccattgg ctgtggtatt gtagaaagca tactaaactg ggtgaagttt aaggcccaag 1380
tccagttaaa caagaagtgt tcagctgtaa aacataatg aatcaaggga attcccaaac 1440
tcgatgatgc caatgatgca gggggccgaa actccactga gtgtacgctt atcctgactg 1500
aggagatttc agccaaaact ttggctgttt caggccttgg tgtggttggg agagacaaat 1560
atgggggttt ccctcttaga ggaaaaatac tcaatgttcg agaagcttct cataagcaga 1620
tcatggaaaa tgctgagatt aacaatatca tcaagattgt gggctctcag tacaagaaaa 1680
actatgaaga tgaagattca ttgaagacgc ttcgttatgg gaagataatg attatgacag 1740
atcaggacca agatggttcc cacatcaaag gcttgctgat taattttatc catcacaact 1800
ggccctctct tctgcgacat cgttttcttg aggaatttat cactcccat gttaaaggat 1860
ctactaaaca gcaagaaatg gcattttaca gccttctga atttgaagag tggaaaggtt 1920
ctactccaaa tcataaaaaa tggaaagtca aatattacaa aggtttgggc accagacat 1980
caaaggaagc taaagaatac tttgcagata tgaaaagaca tcgtatccag ttcaaataat 2040
ctggctctga agatgatgct gctatcagcc tggcctttag caaaaaacag atagatgatc 2100
gaaaggaatg gtttaactaat ttcattggag atagaagaca acgaaagtta cttgggcttc 2160
ctgaggatta cttgtatgga caaactacca catatctgac atataatgac ttcatcaaca 2220
aggaacttat cttgttctca aattctgata acgagagatc tatcccttct atggtggatg 2280
gtttgaaacc aggtcagaga aaggttttgt ttacttgctt caaacggaat gacaagcgag 2340
aagtaaaagt tgcccaatta gctggatcag tggctgaaat gtcttcttat catcatgggtg 2400
agatgtcact aatgatgacc attatcaatt tggctcagaa ttttgtgggt agcaataatc 2460
taaacctctt gcagcccat ggctcagttt gtaccaggct acatggtggc aaggattctg 2520
ctagtccacg atacatcttt acaatgctca gctctttggc tcgattgtta tttccacca 2580
aagatgatca cactgtgaag tttttatatg atgacaacca gcgtgttgag cctgaatgg 2640
acattcctat tattcccatg gtgctgataa atggtgctga aggaatcgg actgggtgg 2700
cctgcaaaa ccccaacttt gatgtgcgtg aaattgtaaa taacatcagg cgtttgatg 2760
atggagaaga acctttgcca atgcttccaa gttacaagaa cttcaagggt actattgaag 2820
aactggctcc aaatcaatat gtgattagtg gtgaagtagc tattcttaat tctacaacca 2880
ttgaaatctc agagcttccc gtcagaacat ggaccagac atacaaagaa caagttctag 2940
aaccatgtt gaatggcacc gagaagacac ctctctcat aacagactat agggaaatac 3000
atacagatac cactgtgaaa tttgttgatg agatgactga agaaaaactg gcagaggcag 3060
agagagtttg actacacaaa gtcttcaaac tccaaactag tctcacatgc aactctatg 3120
tgctttttga ccacgtaggc tgtttaaaga aatatgacac ggtgttgat attctaagag 3180
acttttttga actcagactt aaatattatg gattaaagaa agaattggct ctaggaatg 3240
ttggtgctga atctgctaaa ctgaataatc aggcctcgct tatcttagag aaaatagatg 3300
gcaaaaataat cattgaaaat aagcctaaga aagaattaat taaagttctg attcagaggg 3360
gatatgattc ggatcctgtg aaggcctgga aagaagccca gcaaaagggt ccagatgaag 3420

```

```

aagaaaatga agagagtgc aacgaaaagg aaactgaaaa gagtgactcc gtaacagatt 3480
ctggaccaac cttcaactat cttcttgata tgcctctttg gtatttaacc aaggaaaaga 3540
aagatgaact ctgcaggcta agaaatgaaa aagaacaaga gctggacaca ttaaaaagaa 3600
agagtcacatc agatttgtgg aaagaagact tgggtacatt tattgaagaa ttggaggctg 3660
ttgaagccaa ggaaaaacaa gatgaacaag tgggacttcc tgggaaaggg gggaaggcca 3720
aggggaaaaa aacacaaatg gctgaagttt tgccttctcc gcgtggtcaa agagtcattc 3780
cacgaataac catagaaatg aaagcagagg cagaaaagaa aaataaaaag aaaattaaga 3840
atgaaaaatac tgaagggaagc cctcaagaag atggtgtgga actagaaggc ctaaaacaaa 3900
gattagaaaa gaaacagaaa agagaaccag gtacaaagac aaagaaacaa actacattgg 3960
catttaagcc aatcaaaaaa ggaaagaaga gaaatccctg gtctgattca gaatcagata 4020
ggagcagtga cgaaagtaat tttgatgtcc ctccacgaga aacagagcca cggagagcag 4080
caacaaaaac aaaattcaca atggatttgg attcagatga agatttctca gattttgatg 4140
aaaaaactga tgatgaagat tttgtcccat cagatgctag tccacctaaag accaaaactt 4200
ccccaaaact tagtaacaaa gaactgaaac cacagaaaag tgtcgtgtca gaccttgaag 4260
ctgatgatgt taagggcagt gtaccactgt cttcaagccc tcctgctaca catttccag 4320
atgaaactga aattacaaac ccagttccta aaaagaatgt gacagtgaag aagacagcag 4380
caaaaagtca gtcttccacc tccactaccg gtgccccaaa aagggtgccc ccaaaaggaa 4440
ctaaaaggga tccagctttg aattctgggt tctctcaaaa gcctgatcct gccaaaacca 4500
agaatcgccg caaaagggaag ccattccactt ctgatgattc tgactctaatt tttgagaaaa 4560
ttgtttcgaa agcagtcaca agcaagaaat ccaaggggga gagtgatgac ttccatattg 4620
actttgactc agctgtggct cctcgggcaa aatctgtacg ggcaaagaaa cctataaagt 4680
acctggaaga gtcagatgaa gatgatctgt tttaaaatgt gaggcgatta ttttaagtaa 4740
ttatcttacc aagcccaaga ctggttttaa agttacctga agctcttaac ttcctccct 4800
ctgaatttag tttggggaag gtgttttttag tacaagacat caaagtgaag taaagcccaa 4860
gtgttcttta gctttttata atactgtcta aatagtgaac atctcatggg cattgttttc 4920
ttctctgctt tgtctgtgtt ttgagctctgc tttcttttgt ctttaaaacc tgatttttaa 4980
gttcttctga actgtagaaa tagcatctga tccacttcag cgtaaagcag tgtgtttatt 5040
aaccatccac taagctaaaa ctagagcagt ttgattttaa agtgtcacct cttcctcctt 5100
ttccttcgcg gattgccaag gcgcaccccg gtaccccttc aacacttccc ccagggcttg 5160
gggtctcn

```

<210> 991

<211> 1036

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1036)

<223> n = A,T,C or G

<400> 991

```

nnnnnnnnnn caccgctctc tgtttctgcc ggatcatgtct acaagtatcg ctgtaaccat 60
ggtagcttgg ctttcaaaaac tatgcagaag cttcagatac attcccagta tcatgcaatt 120
cggtctgcga caatgtgtaa cctctgccag cgcagtttcc gtacattcca ggctttaaaa 180
aaaacacttg gaagcaggcc accctgaact gagtgaagct gaacttcaac agctatatgc 240
ctccttgccc gtgaatggag aactgtgggc agagagcgaa actatgtccc aggatgacca 300
tggcctagag caggaaatgg agagagagta tgaggtggac cacgaaggga aagcaagtcc 360
tgttaggaagt gatagtagct ctattccaga tgacatgggc tctgaaccaa agcggacctt 420
accttttaga aaagggccca attttacgat ggaaaaattc cttgatccat ctcgtccata 480
taaattgtaca gtgtgtaaag agtcattcac ccaaaagaac attctcttgg tccactataa 540
ttcagtttct cacttgcata agctgaaaaa agttttgcag gaagcctcca gtctgtccc 600
acaagaaacc aacagcaaca cagataacaa accctacaag tgcagcatct gcaatgttgc 660
atacagccaa agctcaacat tggaaatcca catgaggtct gtgctccacc agacaaaggc 720
tagggctgca aagctggagc ccagtggtca tgtggctggg gggcacagca ttgcagcaaa 780
tgtcaacagc cctggccagg ggatgttaga ttccatgagt ttagcagctg taaacagcaa 840
agatacctat ttatgtgcca aagaattaaa taaaaagcaa actcctgatt taatctctgc 900
tcaacctgca catcaccac cacagcacc agacaaaatt cagatgcaac tacagcaga 960
attacaacag caagccgcat tctttcagcc tcagtttcta aaccagcct ttttgcctca 1020
ttttcctatg annnnn

```

1036

<210> 992
 <211> 698
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(698)
 <223> n = A,T,C or G

<400> 992
 nnctagtttg tcagtgtttt cgccttcacc acttttgccc ttcttctgta ccttctgcct 60
 gttttcgтта tactgaatga ccagttcaaa accaaagtтt tccaataacg ctttggcagc 120
 atttcctctg gccctgaag ctattcgggg tgggtgggatg gatggttcca aggatttttg 180
 cttctttgtg tctttgcctt ctttgagtcc ttcaccttca cttataaatt cctgcttttg 240
 tttttctggc ttttcagaaa tatcttctgc ctcttataa gatggcacat ccttcatgat 300
 ttggcagctc gcactcacta tgttactttg ctcttgtttc aataatttgc ttgcctgctg 360
 ttgctgctgc tgctgtggag gtccgggggt gctgctgttg attttgaggc tgcagctggg 420
 gctgtgtggc ttggtattgg tgggcttggt gctgtagtat ctggagttga gtttgaccaa 480
 cgtgatgttg ggtttgaatc tgctgcttta ggtcttcaag caaggagcca gccattcctg 540
 tcatgccagg catcccaaat gtggcagagc ctggcaagcc caaatctggc cccaagctga 600
 actccgtccc aggtatataa aatggaaaга gaaactgang ctgctgaaac tgcagcagtg 660
 cttctggggт cataggtaaa tgaggcaaaa aggcnnnn 698

<210> 993
 <211> 3805
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(3805)
 <223> n = A,T,C or G

<400> 993
 nnatcgacca cgcgtccggt cgggccgcgc cgcagccagc tctcggtctg cagccgcagc 60
 gccccgcccc cgcgtccggt gacctggcag cggcggtctg cagggcaggt ccaggggcca 120
 catggctgag ggggacgcag ggagcgacca gaggcagaat gaggaattg aagcaatggc 180
 agccatttat ggcgaggagt ggtgtgtcat tgatgactgt gccaaaatat tttgtattag 240
 aattagcgac gatatagatg accccaaatg gacactttgc ttgcaggtga tgctgccgaa 300
 tgaataccca ggtacagctc cacctatcta ccagttgaat gctccttggc ttaaagggca 360
 agaacgtgcg gatttatcaa atagccttga ggaaatatat attcagaata tcggtgaaag 420
 tattctttac ctgtgggtgg agaaaataag agatgttctt atacaaaaat ctcatgac 480
 agaaccaggc ccagatgtaa agaagaaaac tgaagaggaa gatgttgaat gtgaagatga 540
 tctcatttta gcatgtcagc cggaaagttc ggttaaagca ttggattttg atatcagtga 600
 aactcggaca gaagtagaag tagaagaatt acctccgatt gatcatggca ttcctattac 660
 agaccgaaga agtacttttc aggcacactt ggctccagtг gtttgtccca aacaggtgaa 720
 aatggttctt tccaaattgt atgagaataa gaaaatagct agtgccacco acaacatcta 780
 tgcctacaga atatatgttg aggataaaca gaccttctta caggattgtg aggatgatgg 840
 ggaaacagca gctggtgggc gtcttcttca tctcatggag attttgaatg tgaagaatgt 900
 catggtggtg gtatcacgct ggtatggagg gattctgcta ggaccagatc gctttaaaca 960
 tatcaacaac tgtgccagaa acatactagt ggaaaagaac tacacaaatt cacctgagga 1020
 gtcattctaag gctttgggaa agaacaaaaa agtaagaaaa gacaagaaga ggaatgaaca 1080
 ttaatacctg aaactatagg aaaggттаат ttgcctataa ttatatatac attccatagt 1140
 catcaaggaa tatattgtgc agagagagta tccttgactg cttaagtcag ccagttcagc 1200
 atggatacca acattagctt ttcttcttgg ttatatcatc tgccaaaaat agagaactta 1260
 tgacttattc atgtgtgttt caggcttatt tgggagaact aatttgaact taatcaccac 1320
 ttcatctaат tttagcaagg taacagttgc ccagggcagt acctgaatta actgtccatt 1380
 tcagtacatg tcaagtgcct ttgttaggtg gagaagaaat gtctctagag gaatataaat 1440
 acctgatttc ttgtcatcga gattcttgta ctgttaaatg aatattgcct tttactgctc 1500
 tttatggctt attggaatag gagctcattt aagattgatc ttggagagtt tcttctgtg 1560

```

at t t t a g t t c   a t a a g t a t g t   c a c c t t t c a t   t t t a t a g t g t   t c a t c a t t g a   g t a a t g g a t t   1620
a a g t g a a a a t   c c a g g a g t a t   c c a t c t g c a g   t t a t g t g c t g   a g g t g a t a a t   t c a t c c a a c a   1680
t a t t t g t t a g   c a t a a a t a t t   a t g c t t c a g t   t t c t g t t g c a   a a t t g g t g a t   t g t g a a a t t a   1740
c a g a a a g t g a   t t t t c t a g t c   t g c t t t t t t t   g t t t a a t t c t   t g t a a t g t a a   g c a a t a a a t a   1800
t g g a g t g t c a   g t a g t c t c c t   t c c a c c c c a g   a a a t g t g t t g   g t g t a a c a t t   c t c g t t t c t t   1860
t t a a c a a c c t   g g a a g t a c c t   t t c t t g t g a t   c t t c a c t g a g   g a a t t a g a a c   t a t g a t a g a a   1920
g t t a g g c t g t   g g c a a a t g g g   a c a t t c g t a g   a g t g g g a t a g   a g g t g g c a g a   a t g a a c c t g g   1980
t g t a g g g c a g   g a g t a t g t t g   t g t a g t t a c a   t c a a t t t g a t   g c a t g c t t t c   c a t c t g c a c t   2040
c c a g a c g g c t   t t c t c a g t t c   c a a g a t t t t g   c a g a g a g a a g   g a g c a a a c c t   t t t c a t t g g a   2100
a a a c a g a a a   c a a c c c t c c c   c c c c a t t t t t   t c c c t c t a t   t c a t c a a a c c   t t t a t g t a t c   2160
t t t c a t c t t c   c a g t t a c c t c   t a g g c a t t t a   g a t a g t g a a a   t t t a c c t t t g   a g a t a t a a c a   2220
a t a a g t g a t t   a a c t g t t c a c   t t t c a g a t g t   a a t g g c a a a c   a a t t g t t a a a   a g t t a t t a a c   2280
t g a t c a c a g a   t t t g c c t g g a   c t t c c c t t c c   c a g g g a g g g a   a c a g a a g t t a   g g a g g c a a c t   2340
t t g g g a t g g t   g c t a g a g c a t   g g a a a g c a c a   g a g a a t t g g a   c a a a c a g g t c   t t t t t c t c t t   2400
t t c t c t g a t g   t t t t a c c t t t   a a a a g a t c c a   a c a t c c t t a c   c g t t g g t a t t   t t t a g t a a g g   2460
t t a t a g t a a a   t a g c t t t a c a   c c a g g a t g g a   t t c t g a a a t a   t a a a t t c t a a   a t t a t a t t t g   2520
t t a t a a c t a t   a t t t t a t g t t   g t a t g t t a t c   a g g a g c c a t c   a g a g a a t g a c   c t t t t t g t g t   2580
t t g g a a c a c t   t g g t t c c a t g   a a a a g t a t g c   t t t g t g t t t t   a a c t g t t a a a   a t a a t t t a a a   2640
a a t t a a t t a t   t t t a c a t a a t   t a a g a a g t t   a a a a a c t a t t   a a c a t t a a a t   a a t t t c a c a a   2700
t t t c a a c a t g   t c a a a c c t a t   g a a g g g a g a t   a g g a a a c a a t   g a g a a a c t t a   c t t t t g c t c c   2760
t t t t a c a g a   a t t a t t a a c t   a t a t t t t a c t   a a c t a a a a a a   c t c t a g t a t t   c t t t a c c t a c   2820
a g t c a a t t g g   c t g g t a a g a g   g g a g a g a t g c   a a a a t t c t c c   a g c t c t g a a c   t t g g a g c t a c   2880
t t c a c a c t c t   a c t c t t a a t g   g a a a c t t g a a   c t a a t g a t a g   a t a g t a t t t t   t t c c t c t a t   2940
t t a a a a t t t t   t g t c t t g a t t   a g g a g a t t t t   t c a g t t c t c c   a t a t a a t a a t   t t t c t a c a a t   3000
c a g a t c t a t g   c t g t g g c a t a   t t t t g c t t t a   t t t a a a a a t t   t t t t t t t a g a   g a t g a g t t c t   3060
t g c t c t g t c a   c c t a g g c t g g   a g t g c a g t g g   c a t g a t c a t g   g c t c a c t g c a   g c c t t g a c c t   3120
t c c a g c c t g c   c a a g t a g c t g   g g a t t a c a g a   c a g g c a t g t g   c t a t t a c a c c   t g g c t a a t t t   3180
t t a a a g t t t t   t t t t g t a a a g   a t a g g g t c t t   t c t a t g t t g c   c c a g g c t c g t   c t t g a g c t c c   3240
t g g c c t c a a t   c g a t t t c c t   g c c a a g g t t t   t g g a a t t a c a   g g t g t g a g c c   a c c a t g c c t g   3300
g c c t g c t t t g   a c a t a t t t t a   t a g t g t g t t a   t t t a c a a a t a   g t c t t c a t a t   g c c a g a a t a t   3360
a a g a g c a a g t   g t t a t c t a c t   t t t t a g a t g g   g a a t t g c a g a   a g c t g c a t c a   a a a g t a t g c t   3420
t t g a g g t a t a   t a t a g t g a a a   c a g a g c c t t t   c t g a a g a g a a   t t a t a t c a a a   c t a a t t a c a a   3480
c c a a g a a a t a   a t a g t a t g a a   g c g g a t g c t g   t t t g g a g g a c   a g g a a a a t t t   a t c a g g a a a a   3540
t t a c a t a a t c   c c t c t g a t t c   c a c t a t c c a g   a g a t a g c c a t   t a t t a t t a a t   a t t t g g t a t g   3600
t a c a t c c t t a   t a t t a t t t t t   t t c t t a t g c a   t g a t t t t g t a   t a t a t g g t t a   t t t t t c t t t c   3660
c a t a a a a a t g   g t a t t a a a c t   g t a t a t a c t g   t t t t g t a g c c   t a c a t a t t t c   a t a t a g a a g t   3720
a t a t t g t t a a   c a t t t t c c a t   g t c a a t a a a t   a t t c t t c t a t   g g c c t g a c a a   t a a c a a a a t a   3780
a a a a t a a a c g   t c n t t t a c c c   t c g n n

```

<210> 994

<211> 1974

<212> DNA

<213> Homo sapiens

<400> 994

```

t t t t t t t t t t   t t t t g g a g g g   g g a a a a a a a g   g t t t t t t t t t   t t t g t g g g g g   c c g g g g g g c c   60
a c c c c a a a a a   a a a a a a a a t t   t t t t g t t g t g   g g c c c c c c c c   c c c t a a a a a g   g g g g g a a a a a   120
a a a g t t t t t t   t t t t t a a a t t   t t g g g g g g g g   t t t t t t t t t t   t t t c c c c c a a   a a a a g g g g g a   180
a a a a a a a a t t   t t t c c c c c c c   c c c g g c t t t t   t t t t t t t t t t   t t t t t t t t g g   g g g g g g g g g g   240
g g g g g t t t t t   t t t t t t a a a a   a a a a a a g g g g   c c c c c c c c c t   t t t t t t t t t t   t t t t t t t t t t   300
t t t t t t t t t t   t t t t t t t t t t   t t t t t t t t t t   t g a c a c a a a c   c c a c t t t a t t   c a g c a t t g a g   360
c c a g c c c a c a   c g c t g g g c a g   g t c a a a c t c a   c a g a c a t c g c   a c c a a g g g c c   g g g g a c t c a g   420
a a g g g c t g a a   a g g c t t c a t c   t g g a a a t g g g   c a c c g c t c a c   a a g c c c g g c t   a t c c c c a t t t   480
a g c a t c t c c a   g g c c c t g c c a   t g g t g t c t c a   t c t t g c t g t t   a t c t c t a g c t   c t t t c c c t c c   540
t c c c a t t t c c   t t t a g t a g t t   g a a t t t t g c a   a a g c t t g t a g   c a g t a g c t c a   g t t g c c t g c a   600
g c a t c c t t g t   g t c g a g c g g c   c g c c c g g g c a   g g t a c c a t c a   t g g c t t g a g t   g c t c t g a a g c   660
c c a t c c g g a c   t a c t t c c a a a   c a c c a g c a c c   t a g t g g a c a a   t g c t g g g c t t   t t t c c t g t a t   720
g a c t t t t t c g   t g g c t t t c t t   c t c t g g c c c g   c t c t g g c c a c   a a g a a g g g g g   a g c t c t c a a t   780
g g a a g a c g t g   t g g t c t c t g t   c c a a g c a c g a   g t c t t c t g a c   g t g a a c t g c a   g a a g a c t a g a   840
g a g a c t g t g g   c a a g a a g a g c   t g a a t g a a g t   t g g g c c a g a c   g c t g c t t c c c   t g c g a a g g g t   900
t g t g t g g a t c   t t c t g c c g c a   c c a g g c t c a t   c c t g t c a t c   g t g t g c c t g a   t g a t c a c g c a   960

```

```

gctggctggc ttcagtggac cagtaagttc taaccatcct ttccgacagt ctccaggggc 1020
ccggccacgg ccagctctaa cactcttatt ctgttgacga ggttggtctc agctttgggc 1080
taggtagcag tcttagagat gccttcaggt ctgttgaaag gggtcgatgg attttgcaa 1140
cagctggaag gatgaaaggg cagtgttgcc agagaagaaa tggaaactggc ttgatttctg 1200
ggtgggggtg aaatggaact gactccagtt ctgcacagga ctgtgcttct cggttgtgtg 1260
ttaacatgaa ctgacagtcg gtgcaggcag atgtgtcttg cagtgtctatg agtgggtgag 1320
agcacgttgt gtggcccggg ctggtgagcc agcaccggga acataccaag tgcctggagg 1380
cagttatcac atgtttggca ggtctgtggc aaataagccc tgagaaaact agaggactgt 1440
cgaggatttt agagtctgac ctggagtccg ttttaagttt gcttatagtg tgactgtgtg 1500
gcaagtgttg ggggtggcagc cgtgggtttt cccagtctgt actgatgcag agtagacaag 1560
agagcctttg acgttccactc tgtttcctgg gcacctgttt cttacacctg ctgtgctgcc 1620
ttacacttga gaccttgatt aaatctattc tctacacatt tgccttgagg catcggagca 1680
gtagtactgc ttgtactgtg cgttttccat atgtgggtaa gctggagggt catgggtttg 1740
gtacgtatgt gcctagatg catggcaatt aatttgacgt tttgtttttg 1800
tttttatttt ttttaacgttt gatgcctctt gttaaagttt tgatctcttt tctgaagcag 1860
agaacactac ttttctggta ttgggtttct atattattaa taattgacca actaacatac 1920
tttatataaa agttttaagt aagaaggacc atgtaactga aatgttgtgt tatg 1974

```

<210> 995

<211> 1125

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1125)

<223> n = A,T,C or G

<400> 995

```

acacactgtt accagtttta taaaatcagg gtcactctgg catggagtcc cagctccatg 60
caacatccca ctggacatct ccttccttgc ttcactggca ggctgggtct cctgtcattc 120
ctactccatt agttcaaggt cagtgaagaa ctggggcaat taaccaagta attcatggac 180
tgcccaactg cgaacaaga agggcgaggt ggagcaggag tattatgcta cgcggttacc 240
tttttttatg gaggaccgaa ctgaggctga gcctcagatg atcctgcacg aggttatgca 300
gtctaataaa aaggctgtaa ctattcgttg aaacatacga aactgctaac attggactgt 360
ttttgacttt taaagtggca atttcatatg gttcaaccta tagaagccaa aactttctct 420
ggcacaacag attgcttcag gccatctcta cccagctaaa caccatcc cactaacacc 480
tgtaactagg agggaagcaa gagttctttg taagaagtag ctaactactt cttttcccta 540
gcttttgac ccaggctcta agggaagagg gcctagggtc tctataatgc tggataccta 600
gttaaattca catctaaatg tcttactatt catgttctta tcatctctaa taaaatggaa 660
aatactttt cctaatagga tagttgagaa cgttaggggg aattaatacc atctttcttc 720
cctaagtcct tatcaataa ttttgaaaat taatttccag taaggaagac tgaaaggagc 780
cctgtaaaat gttctcctcg ggcaaaacca aacaagttta gatgagtaga gcacaagctt 840
acccctttc cggccggact gcacatcat tttacgacga acagtgtcaa aggggttaga 900
caccagccct gcgactgccg tcacactctg ggcaatcatc cagctcacta aaacagtgc 960
cgatgtcggg atcaggcagc atccccctga cagtatcgta gactccaaag taggcagctc 1020
tagagataat gatgccttgg acatgtacgt tgaaaccctg gcagagcccc ctcaggccat 1080
cagacaagaa gatgttgatg agacagtagc ccagaccatg gaacn 1125

```

<210> 996

<211> 1500

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1500)

<223> n = A,T,C or G

<400> 996

```

nnnnnnccgg ccccccctga ggtcgacgga tcgataagct tgcttggggg gggnnnnnnn 60

```

```

nnnnnnnnnn nnacgcgggg gcactcggcc tgagaaactc ggcaagcgcg cagtgtcgac 120
tccccggtct atgccaggcg catctcagct aatccaaaag taaatgagaa acttagaaaa 180
agattgccaa ttccaaatca acatatttag agaaaattgg aaaaggagaa gcttactaca 240
gctttatttg aggacttttt aaagaacgct gggttctatc tgtgagctgc aaatcttggg 300
gcaaaaacca gagacattgc cagagcaaac aagaacagaa atacaaatgg agaactgggtc 360
aaaagacata acccacagtt atcttgaaca agaaactacg gggataaata aaagtacctc 420
ggccgcccgg gcaggtactt taccagcaga ccacagtttt gccctggcta gaccaaccct 480
cagaacaaaa tcatcattcc ttgtatttat atttgtatct gagatagtaa acaagatggc 540
tgcccgaggtc aacatggcac cttaacttat ttttttaata ggtaaaactt cttcaaaagt 600
agcttgcttt gtataagaac taagctatca gtatagatat agctatcctt ggagcttatg 660
tttcagacaa gaattattta ctaaaataaa taataaacia gataatgcat tatacaattt 720
gggcatttct cgtttctcaa gtgtatgcat catggtaaata ataaactaac cacaagatag 780
gtagattgat tcatttcatt ttaatctcct tgtgtaattc agtacctcca taattgttct 840
aatcttcttc ccactgttta caaattacca gttaattaac tggtgaaaga aaaattcaca 900
tatcagaata aaaataaatg tatactcact ttataaaaat caccactgct gtctttcctt 960
aatactagca gtggaaatgt aagtggctta ctctacaaat ttggtgctgg caaatacata 1020
ggcaaaactgt gggagctgct ctagttagat tcctcccttc ttattccctt tttctcttcc 1080
tcactttatg cataacatat tcctgtacct aaagcattct accacagttc tatttgactc 1140
ccacttgtaa taactccttt aaaaaattcc atgtttaacc atatgaccct gctttgttac 1200
tcataattctc cctccctctc cccttccttt ctctctcttc cagaagtcac tcgctgggtg 1260
tgaaatattt tgtagggatg gttattatat tattttagtg atgagacctc aggacaatgt 1320
ctacacaca cacaataat acagcacaca taatctcaggt gttgaagagt ggggttgatg 1380
cagactcttg tgttcagtaa aaaaatctgg gtggagcttg tggattgagt agttcgaagg 1440
gtcccgaggaa tggcaatctt tcgggcaaga aggttgacc cggtgctaag gtagcccgag 1500

```

<210> 997

<211> 2961

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2961)

<223> n = A,T,C or G

<400> 997

```

nnggcgaaga ggccctggcgc tgccgctccc ggcgatgctc cctgaattca ccaaggtcac 60
gctgcagccc gcaggaatga aaatccactt ctccgcattt tcgaggtgac ctggaagcgg 120
ttcaactgct ctggcttctc agaagaggag gggaccgggc ggtaacgagg agccaaaggg 180
aggagactgc tcgcaaaacc ccggaaaagc tttcccgatc cactctgcca gcctccgtgc 240
gcctccagac atgcgcagta gcctcccccg cgggtggcggc ggccggcggcg gtggctgccg 300
tgccggctga ggtccagag ccggacgttc cggccgcttc gggctggcgg ctggagagcg 360
ctcgggtcat gctctcccag ggggactgcg agttcctggt gcagcgagcc cgggagttgg 420
tgccgcaaga cctgtgggca gccaaaggcgt ggctgatcac ggcccgcagc ctctaccggc 480
cagactttaa catccagtat gagatgtaca ccacgagcg gaatgcagag cggaccgcca 540
ccgcccggag gctgctgtac gacatgtttg tgaatttccc agaccagccg gtggtgtgga 600
gagaaatcag cattattaca tcagcattaa ggaacgattc acaggacaaa caaacccaat 660
ttttaagaag tttatttgaa actcttcctg gtcgagtcca gtgtgaaatg ttactaaagg 720
tcacggaaca atgcttcaac acgttagaac gatcagaaat gttgcttcta cttttgaggc 780
gcttccctga aacggtgggt cagcatgggg ttggccttgg ggaggcacta tttagaggctg 840
aaactattga agaacaagaa tctccagtga actgctttag aaaattattt gtttgtgatg 900
tccttctctc aataattaac aacctgatg ttcgattacc tgccaattta ttgtataagt 960
acttgaacaa agcagctgaa ttttatatca attatgtcac taggtctact caaatagaaa 1020
atcagcatca aggcgcccag gatacatctg atttaatgtc acctagcaaa cgtagctctc 1080
agaagtacat aatagaaggg ctgacggaaa aatcatccca gatcgtggac ccttgggaga 1140
ggttgtttaa gattttgaat gttgttgtaa tgagatgtga atggcagatg gataaaggaa 1200
gacgaagcta tggagatatt ttgcatagaa tgaaggatct ctgcagatac atgaacaaact 1260
ttgatagtga agcacatgca aaatataaaa accaagtggg gtattccacc atgctgggtc 1320
tctttaagaa tgcatccag tatgtcaaca gcatacagcc atctctcttc caaggctcta 1380
atgccccgag ccaagttcca ctggttcttc ttgaagatgt atcgaatgtg tatggtgatg 1440

```



```

tagaaattga tcgtaataaa cacatccata aaaagaggaa actagctgaa ggaagagaaa 1500
aaaccatgag ttcagacgat gaagactgtt cggcgaaaagg aagaaatcgt cacattgtag 1560
tcaataaagc cgaacttgct aactccactg aagtgttaga aagctttaaa ttggccaggg 1620
agagctggga gttgctctat tccctagaat tccttgacaa agaatttaca aggatttgct 1680
tggtctggaa gacggatact tggctttggt taagaatctt cctcactgat atgatcatct 1740
atcaggggtca atataaaaag gcgatagcca gcctgcatca cttagcagct ctccagggat 1800
ccatttctca gccacagatc acagggcagg ggaccctgga gcatcagagg gcgctcatcc 1860
agctggcgac gtgccacttt gcgctagggg agtacagaat gacatgtgaa aaagtccttg 1920
atttgatgtg ctacatggta ctccccattc aagatggagg caaatcccag gaggaaccct 1980
cgaaagtaaa gcccaaattt agaaaagggt cggatctgaa gctcctgcct tgtaccagca 2040
aggctatcat gccatactgc ctccatttaa tgttagcctg ttttaagctt agagctttca 2100
cagacaacag agacgacatg gcattggggc atgtgattgt gttgcttcag caagagtggc 2160
cacggggcga gaatcttttc ctgaaagctg tcaataaaaat ttgccaacaa ggaaatttcc 2220
aatatgagaa ttttttcaat tacgttacaa atattgatat gctggaggaa tttgcctact 2280
tgagaactca ggaagtgagg aaaattcatc tggaattact acccaatcaa ggaatgctga 2340
tcaagcacca cactgtaact cgaggcatca ccaaaggcgt gaaggaggac tttcgcttg 2400
ccatggagcg ccaggctctc cgctgtggag agaactctgat ggtggttctg cacaggttct 2460
gcattaatga gaagatcttg ctcttcaga ctctgacctg agtggagacc tttccaccag 2520
acacagctcg ggcctgtgta attgtaggag aagacactca gcagtgattg ccatggcaca 2580
gagccgtggt cattgttgct gttacaaaga agaaaacat ctgagttcta actccttgg 2640
tgcttaaaag tagttcccaa gactctgaga agctatttct atttttaaga gtcatttttt 2700
gtaatttttg taaaacaaaa gtaccaatct gttttgtaaa taaaaatcat cctaaaaattt 2760
gaagacaaaa gaaacaaaaa aacaaaaaaa catgtcggcc gcctcgcccc agtcgactct 2820
agactcgagc aagcttatgc atgcgggcgc aattcgagct cacttgacca attcgcccta 2880
tagtgagtcg tattacaatt cactgggccg cgtttttacaa cgctcgtgact gggctggcgt 2940
atagcgaaga ggcccgaacc n 2961

```

<210> 998

<211> 321

<212> DNA

<213> Homo sapiens

<400> 998

```

accatttcta ggcttcttaa agcggacagg atatgcacat gtctgtcctc cataccgtgt 60
tcattatggt ctaaaagtgt gatcccatca gtttgtttta tagaatgaag acagggtgtgt 120
gtgtgtgtgt gtgtgtgtgt cagagagaga gagagagaga gagagagaga 180
gagactttca agacctttgc aaataatttc cactgtgacc ccagctctgc agtctcattg 240
gccaatgctt gggttcctgc atctgatatc ctgggtatct acaactgttc atctttttca 300
accatacctc tatgtatgca t 321

```

<210> 999

<211> 1517

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1517)

<223> n = A,T,C or G

<400> 999

```

nnccgagacg ggggcggcgg ccgcgcgggt ctggcgggac cggtttggaa gactttgccg 60
gcctgcagat tggccttaag agaaggacgg agccacatac tgctgacggc ccagaactgg 120
cagagagaag gttgccatgg ctgctgttga cagtttctac ctctgtaca gggaaatcgc 180
caggctttgc aattgctata tggaagctct agctttggtt ggagcctggt atacggccag 240
aaaaagcatc actgtcatct gtgactttta cagcctgac aggtgcatt ttatcccccg 300
cctggggagc agagcagact tgatcaagca gtatggaaga tgggcggttg tcagcgggtgc 360
aacagatggg attggaagg cctacgctga agagttagca agccgaggtc tcaatataat 420
cctgattagt cggaacgagg agaagttgca ggttggtgct aaagacatag ccgacacgta 480
caaagtggaa actgatatta tagttgcgga cttcagcagc ggtcgtgaga tctaccttcc 540
aattcgagaa gccctgaagg acaaagacgt tggcatcttg gtaaataacg tgggtgtggt 600

```

```

ttatccctac cgcgagtatt tcaactcagct gtccgaggac aagctctggg acatcataaa 660
tgtgaacatt gccgccgcta gtttgatggt ccatgtttgt ttaccgggaa tgggtggagag 720
aaagaaaggt gccatcgtca cgaatctcttc tggctcctgc tgcaaaccce ctctcagct 780
ggctgcattt tctgcttcta aggcttattt agaccacttc agcagagcct tgcaatatga 840
atatgcctct aaaggaatct ttgtacagag tctaatacct ttctatgtag ccaccagcat 900
gacagcacc cagcaactttc tgcacagggt ctcgtggttg gtgccttcgc caaaagtcta 960
tgcacatcat gctgtttcta ctcttgggat ttccaaaagg accacaggat attgggtcca 1020
ttctattcag tttctttttg cacagtatat gcctgaatgg ctctgggtgt ggggagcaaa 1080
tattctcaac cgttcaactac gtaaggaagc cttatcctgc acagcctgag tctggatggc 1140
cacttgagaa gttttgccaa ctctgggaa cctcgatatt ctgacatttg gaaaaacaca 1200
tttaatttat ctctgtgtt tcattgctga ttattcagca tactgttgat tcgtcatttg 1260
caaaacacac ataataccgt cagagtgtct tgaaaaacct taagggtgtg tggatggcac 1320
aggatcaata atgcctgagg ctgattgacg acatctacat ttcggtgctt tttccctaag 1380
ctgtttgaaa gttacgcttt tctgtgttc tagagccaca gcagtctaatt attgaaatat 1440
aatatgattt gtcaggctct ataaaaaaa aaaaaaaa aaattgcggc cgcaagctta 1500
ttcccttag tnnnnnn
1517

```

<210> 1000

<211> 982

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(982)

<223> n = A,T,C or G

<400> 1000

```

cccacgcgtc cgcggacgcg tgggccttga tcaatacatg actgacggga tctgctccg 60
agagtccctc cggaagccg acctggatca ctacagtgcc atcatcatgg acgaggccca 120
cgagcgtcc ctcaacactg acgtgctctt tgggtgctc cgaggagtga gggctgtgtg 180
gtttggtctc tctgcgcatg ggggtgtgac cagtgcacca ccagtagcta gtgggttgct 240
ccaggtgggc tgagggggtc tctggtaggc cagaggttcc tgaggcctct ggttgacagt 300
cagactcggg ttgtaagttc atgctgtttc ttgctctgct gaggggtggc tggggttttc 360
tgggcagtgg ctccattgct tcagtcttca tgattggtaa gaattgaata ggccatttg 420
tcagctttgg cttgtgtttc ctgggggtg gtgctgatgg gactggggga caggagccaa 480
gggtcccccac catgggggccc tccgagccgc ctcttctctc aggtagtggc tcggcgctca 540
gacctgaagc tcacgtcac atcagccacg atggatgcgg agaagtttgc tgcctttttt 600
gggaatgtcc ccattctcca catccctggc cgtaccttcc ctgttgacat cctcttcagc 660
aagacccac aggaggatta cgtggaggct gcagtgaagc agtccttgca ggtgcacctg 720
tcgggggccc ctggagacat ccttatcttc atgcctggcc aagaggacat tgaggtgacc 780
tcagaccaga ttgtggagca tctggaggaa ctggagaacg cgcctgccct ggctgtgctg 840
cccattact ctacgtgcc ttctgacctc caggccaaaa tcttccagaa ggctccagat 900
gggcgtggga agtgcatgtg tgccaccaat attgccgaga cgtctctcac tgttgacggc 960
atcatgtttg ttatcgannn nn
982

```

<210> 1001

<211> 2439

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2439)

<223> n = A,T,C or G

<400> 1001

```

ntatagggag tcgaccacg cgtccgggct tcggccggct aagccggg caccgcgggt 60
ctgagggacc ggaggagcgg ggccgggagc tgcgaggagc cctccagacg tcgccgagcg 120
cgagggcggg cgtgctcgga gtggtcgtc gtcagccgcc gcccctcagt ctccgcactt 180
gcaggtcccc tccctctccg ccgggacgcg ggagagcccc gctcggcg gggcgggcca 240

```

```

atgcgaaact ggctggtgct gctgtgcccg tgtgtgctcg gggccgcgct gcacctctgg 300
ctgcggctgc gctccccgcc gccgcctgc gcctccgggg cggccctgc agatcagttg 360
gccttatttc ctacgtggaa atctactcac tatgatgtgg tagttggcgt gttgtcagct 420
cgcaataacc atgaacttcg aaacgtgata agaagcacct ggatgagaca tttgctacag 480
catccacat taagtcaacg tgtgcttggt aagttcataa taggtgtca tggctgtgaa 540
gtgcctgtgg aagacaggga agatccttat tcctgtaaac tactcaacat cacaaatcca 600
gttttgaatc aggaaattga agcgttcagt ctgtccgaag acacttcac ggggctgcct 660
gaggatcgag ttgtcagcgt gagtttccga gttctctacc ccacgttat taccagtctt 720
ggagtgttct acgatgccaa tgatgtgggt ttccagagga acatcactgt caaactttat 780
caggcagaac aagaggaggc cctcttcatt gctcgcttca gtcctccaag ctgtggtgtg 840
caggtgaaca agctgtggta caagcccgtg gaacaattca tcttaccaga gagctttgaa 900
ggtacaatcg tgtgggagag ccaagacctc cacggccttg tgtcaagaaa tctccacaaa 960
gtgacagtga atgatggagg gggagtcttc agagtcatca cagctgggga ggggtgcattg 1020
cctcatgaat tcttggaagg tgtggaggga gttgcaggtg gttttatata tactattcag 1080
gaaggtgatg ctctcttaca caaccttcac tctcgccctc aaagacttat tgatcatata 1140
aggaatctcc atgaggaaga tgccttactg aaggaggaaa gcagcatcta tgatgatatt 1200
gtttttgtgg atgttgtcga cacttatcgt aatgttctct caaaattatt gaacttctat 1260
agatggactg tggaacaac gagcttcaat ttgttgctga agacagatga tgactgttac 1320
atagacctcg aagctgtatt taataggatt gtccaaaaga atctggatgg gcctaatttt 1380
tggtggggaa atttcagact gaattgggca gttgaccgaa ccggaaagtg gcaggagttg 1440
gagtaccgga gccccgctta cctgccttt gcatgtgggt caggatatgt gatctccaag 1500
gacatcgta agtgctggc aagcaactcg gggaggttaa agacctatca ggggtgaagat 1560
gtaagcatgg gcatctggat ggctgccata ggacctaaaa gataccagga cagtcagtgg 1620
ctgtgtgaga agacctgtga gacaggaatg ctgtctcttc ctcagtattc tccgtgggaa 1680
ctgacggaac tgtggaaact gaaggaacgg tgcggtgatc cttgtcgatg tcaagcaaga 1740
taacagggac ttgaattagc agagtctaaa atcagggcag gcaaacgata atctgagtgc 1800
aagtctgagg agtcccaggg tttagcagta gactgtatgg tctttcaaga gagttccaga 1860
ctggcacttt caccagaac caatgcggtg tttcttaatg tttgcacaaa tttccttcaa 1920
aatcaacttg atgttagca taagaaaagt ttttatttat ctattggaag attatcagaa 1980
aaataccaag ttattttata aaagaaaaaa tatttctaaa tcctgatgca ttgtggctaa 2040
ttagtaattc accattacct atagtttttg gttaaaactt ggcctagttc agaaatctgt 2100
agtagtaact gagagtttga atttcaacct ggatcgagc atagctctgt agagctaatt 2160
aggataatta tcagacaaaa aggaactcac aggaatgctg tgtgatcatg tgatcacata 2220
tttgagcagt ggtcacttat accaaagttt ggggtttctg gcaaataatg tcagattttg 2280
tggatctctg acgtgggcaa cttgaactaa cttgaagagg aaccaatatg attctcagtt 2340
tctgaacttg gtttaaagaa gttcattcat atggtagact aataacccaa atttctttct 2400
gccatctaac ataactctga aggtcacagg ttagacnnn 2439

```

<210> 1002

<211> 5092

<212> DNA

<213> Homo sapiens

<400> 1002

```

gattgaaaaa aatatgaaat ttaatttttag acatggcaag ttcaattaca tcaattcata 60
tcacagtaga aaatataatt tgttctacca tgggaaatag tataatggaa tagatcacaa 120
tagtagtata ataaaataga atatccaagt gcaaaaacaa ttttcaagta agtacacaca 180
ctgtttgaag gtactttatt aagatcaaaag atttttcatt acattttatt ataaatcctt 240
cctagtcaaa ataaaataat aaaaatctgt atcttttagaa agaacatagt tttgtaagtc 300
tgagaagggt atgtttgtca gtttcaaatt attacagttt agatacattc aatcattaca 360
caataccagg aaggtcagcc ttaaagatac caagaacttc catattggtc agtaaaataa 420
gggtaaaaaa ttaaatttta ctttcacctt tttatgtttg attgactaca gtcaataata 480
ggagtacaga atttactttt tggctctgat ttttaaatat atgaatttta aaaagtgaac 540
gttctctctc tcttacatag tggctccaac ttagggagct ggcttctgga gggaggagtg 600
ctattctcct tgctggagaa ggaggctggg ggaagaaagt acagaattca gggccttttt 660
gctgccgttg tcaatgaact ctcgagttg gccctgcctt attaaatttt aatcaattat 720
ctttctaagc atcaagatgg ccattgtaaac actgttttta agaccacgtc taccggcttg 780
gcacggtgga tcatgcctgt aatcccagc ctttgggagg ccaaggcagg aggattgctt 840
gagccagga gttcaagacc agcctgagca acatggcaag accctgtctc aaaaaaaaaa 900
aaaaagtata ctacctgatt tctaaaatta ccaaagtgcc cccttttccc cccattattt 960
aaaaaatatt gttctagctc tgcgcttaag gtctggacct ttctttttta aaatgttata 1020

```

ttttataaac	atcttattat	taccaccacc	aaaaaaggac	tcagtttctc	ccaottttaca	1080
ctatatctct	gtccccaag	taaataactg	aagcaattat	ctgcaatttt	tttaaaatgt	1140
gggtatttca	gggtaaagaa	tttgactgc	ctaaattact	caggtgattg	cctgaattat	1200
tacatatgtc	ccatcattct	ttgtacaaga	agtcttgatt	tatagaaaat	ttcagacaat	1260
gttcaaagaa	ggaaatatgc	tacccaacaa	atctacttaa	gacttcaggt	tggcaaccct	1320
ccctctttca	ttttttaaaa	acaaaatttt	ttgctattta	attaatacac	ttagaactca	1380
ctgtctggat	cacgttggtt	tataatactt	agtctgatta	tctatttttg	tgtgactatg	1440
tgtcaaggcc	attggagtgg	tttttgtctc	tgcttcta	atgaacttga	caagtatgaa	1500
ggaaaaccag	tgaataatgc	tatcaaatgt	gcagtgcaca	gatcgcacac	ttggatctat	1560
ctttgtaaag	ctcaaatatt	tacatggaat	gttgaccatg	atttataaaa	ctactctttt	1620
aaattaggac	atcttgacat	acaatcagtt	tattttatga	atagccccgt	ttgatattta	1680
aaaaaatatg	cctttaaaaa	atttcataaa	tatatagaat	tttactacat	tctatttttt	1740
ttcacatgac	attttaaactc	tctttacaaa	tcaacaaaaa	aataacattt	ttttttccac	1800
tttgaagtc	acagatgcaa	tgattttcga	cggttcaggt	ttcactgcat	gcaagaacgg	1860
caggatatgc	tctcttatag	aacggataga	catttctagc	attttgaatt	atataattca	1920
cttgtgaaa	atcagtagta	tcaaagaaaa	gtgagagaa	ccatctaaat	atttacaata	1980
taagagtctt	tcctaaactt	ctttaacaat	ggcaagggtt	ggatgggtgc	tggacagtgt	2040
taacaagcat	ttttagtgaca	aagaaataac	atcacatgaa	aagttttcta	aaataaatct	2100
tagagcaatt	taaagagggg	tgatctattg	cacatagatg	aaaaataatc	tttaatttga	2160
tcagtaatat	gtaaaacagg	ttttacatgt	tttagaatag	aaatccttct	tctaattttt	2220
tggaaaaatc	caaaaccagc	taaaataaca	ttttgggtga	cttcataaat	tgtcttctga	2280
ggaattacaa	ataaaaaatat	cctttgtaat	catttcttgc	cacaaggcta	ccattctttac	2340
ttatattaat	cccaaaggaa	aggcttttcg	ttacatata	aataactgtt	aaaagtctac	2400
tttcccttat	taaatgttgt	tgagtcactg	acaggtactc	aaaaggactt	ctcaagctat	2460
attatgaagg	ccattcactc	aaggtaaaat	ttcagttact	cctttaagaa	ttatttttaa	2520
atgcacacac	tgtgaacgta	ttgcgaatat	gtaagaaagt	ctacactttt	tgaatagtaa	2580
gaggacacct	tactgcctgc	cgggctaaat	ctgtgatgat	ccaccagaa	acagcagagc	2640
tcacctgtct	gtctggagct	gctcatggct	gctgaattga	taccttcaac	agctaacatt	2700
caaactcgac	atcgacagcc	acacctgaga	ccagcagaag	cgtgaaactc	ccatacatat	2760
taagcctcta	gctaagtctc	tctgaaaatt	tcagcctcat	cttgagata	gagcgggtatt	2820
gaagacaacg	agaaggtttg	aggttttgct	tagaatacag	tactgtgcat	attttgattt	2880
cggatcttat	actaacacat	ggcgtttgaa	ataaggctgt	aaaaagatac	aaacaaaacc	2940
agcattcaac	ttgaaccaag	attgtacatc	tatgacagtg	atatagattt	aaaaacccta	3000
ctaccaaacc	tgtaattgat	ttcatcatgc	actctataga	aaaagacaat	tatggaaatt	3060
tctcttagtt	atgaatgtaa	ccagctcact	ggcaccctat	gggtctctgt	ctctaatttg	3120
tcaaaagtgt	tttttgactc	attgaatgcc	acagtgaagt	catcatttat	tataattttg	3180
tcaaaaagat	gaccatattg	actttccatt	atctgtgcag	atttaatcat	ttcttgaaaa	3240
tcttctcttg	tgaagggttt	tgcagcacct	tggctcatctc	tgttgaaat	aatctttgca	3300
tttttcttg	tttctctcaa	acgctctatt	gatggaggct	ttataaatat	cacatagggc	3360
ttaaattcta	gtgtccttaa	atgcttcact	gtatgaggct	gaacatccaa	caaacaaact	3420
ttgtttttag	caaggacaga	ccgaactgag	tctatacttg	tgcgtagta	gttgttttta	3480
tattctccat	attcaataaa	cttgttattt	tgtacatctg	tctcaaacia	atgcttgga	3540
atgaaaatgt	attcaacacc	atcactctcc	tggcttcttc	ttgctctgg	ggatggggc	3600
actgtcacgc	catagtgtctg	gggtgtcactg	atcagcagct	ttcgtttcag	ttcattcagc	3660
cctactccca	cgggaccaac	caagacaacg	agtctgtatt	tttcattagt	ttgtcgccga	3720
tacgggtgtca	cttcttcgta	tgtgggtacg	tcagctgtgt	cgtactgatc	actcttcttg	3780
cattcataca	tggatttatt	tgttttctta	tcttttctac	taagacgaaa	acttcttcta	3840
aaaccagatg	atttctctgt	ggaaactttc	aggggtgaa	ccaatatttc	tggctgtctc	3900
aaagccaatc	tcctttcctg	gaaatgcttt	gaggggatca	agcctgccct	gggttgga	3960
tcagctctgt	gtttcgcttg	ccaccaagtt	gcacatctt	ggctcataat	ctgaagaata	4020
tctccctttt	tgaagaaaag	ccagcttcc	ttacatggaa	ttgccttatc	ctcattagga	4080
ttatagtcaa	agagggtttt	gataaacatc	ttgccttctt	ttgatgggtg	ctcctctttg	4140
ctgccgggta	taatcttaaa	tgtaatgtct	ccctgagact	gagocaaaat	ctgtattatt	4200
tcctcaggcc	ttttatcttc	cactgggtatc	ccgttgactt	ccctaagttc	atcaccaaca	4260
tgaataagac	cacttctatc	tgcagctcct	cctctcatga	ttctggccac	aatgatcgcc	4320
ccggtctgtt	catccttctt	aatggtagct	cccagtggtt	ctctattttt	gaccagacgg	4380
attattttta	ctgagcttcc	ctcatcgta	atatcttcag	gcataggagg	caacactggg	4440
tcgtaattct	tctgaccac	agtatcatgt	acagagagca	aagccttcac	attgggtttt	4500
gacagtagtt	tcaacagctc	tctgatctca	ctgtttaatg	gcttgttctg	aagctcttcg	4560
gccagatcat	cggccaaggc	cgccgcacca	tggagaatgg	gcaccggact	ctgcttctca	4620
tagtagtgta	gtttttcatg	aatctttacc	aatgaatgca	ggcttttttc	accaaacata	4680

```

tcccagagga aggtcaggtc ttcttggtta tccacatgtg gctgcagctg ggctggcaga 4740
gcagccaaca gctcatacag accagtgtca ctcccagatc ccgttgacaa agctggcatg 4800
atgcaaggtg taggaacagg tcagcccacc gctctccgga caccctgcct tcggacagcc 4860
acagggaatt ccaattcaac agcctgcagc cacgttgtct accaagatct gtatatattt 4920
taagccgttt ctgctctggg ctgccgcggt ccgcgggcag gaggcgcact cgctctggcc 4980
cctgcagccc cgggcccgga ggcaaggagg cagcgaccgc caccgcccga gaggacaatc 5040
gggagccagc gggctcggca ccgccgcggc gggcgacaga cgccggacgc gt 5092

```

<210> 1003

<211> 1797

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1797)

<223> n = A,T,C or G

<400> 1003

```

ncgccgagcg tttcccggga ccccaggtgt gttggcccca aacgcggtcc caactcttgg 60
cgcccccccc cccaggagtt tggggcttta acaagagtcc cttgccgtga tgggggttggc 120
caaccatagg ttatttgtac cgtccaaagt gccaccatg aagtgtcccg ccaattcaca 180
agccgactta cttccagacc agtcacctg cttctgcggg cccagtgcc acggtactgt 240
cctgagtggt ttggaagggt ggtagccgct gatacaggga caggcagatg tgcagacact 300
taccaccctg gtccaccgat cccaccccat gcttccacct cccagagctc ttgagataag 360
accttaagaa ggatcccttg gcttgcatia aaaccacttt gctgtccgtg gaggtctaac 420
aggacccaat agttgttact acaaaagtgc ttttgcaaat agggcaagtt agaagaagga 480
ggtaatatga atattcttta gaaaaactca aatccatcgg cttatcaata cccaaagtct 540
gaggctaccc agggcacaat ttggtccatg gaatgctgag tggaggaggc agctggtgtg 600
aggctgcgcc tgactcccag gagcatttag ccacctttt tggcttgggg agtgtcaaag 660
agccggactg ccttccctga cagcagacag aaccagtaga tctgaggagc tacgaggaag 720
gcattggcca cgttgcagta gaatgggatg ctgaagggtg cttggagcag gcttagtccc 780
tgctggcggc cataggacca gtacatgaag gggaagagaa ggatccggca ggaaaggaag 840
gtggccagcg tgaggattcc attcaccttg tacagaaggg tgtgctgctg ctttagctga 900
atcagaaccc tgcccagcga cacaacgga gtgctcagtt ctgccgtgaa gatgcagccg 960
acaaagaagt ccccagggtc tcccggagc ctctgtcga ctggcacaag gacaaagaga 1020
atgaccgcat gatgtgtgat catgaggcgg tttcgactta ggaagtttcg aagagtgagg 1080
gagggcgcac ggttctggtc tctggttcgg caccattcac agaggtacat ggcgtacgag 1140
tcatagatca tgtatggaat cagaaaccac acatattccc gggcaagcca gtgcctgccg 1200
gtgatcacgt cgtcgcagga gcaaatgatg acgatccccg agccggtggc cagcacggcg 1260
tgcaccgagg aaaccagcct agcgcgggag gagaggagaa cagcgcgcg cgtcagtcgg 1320
gtccgaggac cgcaggagc cgggccggc cggcccttc ggcctgactc tcccagccg 1380
caggcagatg tggggagcgg gctccggagg ctcaatcggc catttccgc ccgcccgcg 1440
ccccgtccc gccaggggag gacgcggagg ggcttcggaa actcggggcg ccgggacgcg 1500
gagggagcag cccccgggct tcttgccgcc ccccttttcc gccctgggce ccgcggcccg 1560
gtggggtgag gtgggcagcg ccccgggcct cggggggcgt ctcgcgcgcg ccggttctcg 1620
gtgctgatca tcacgcagtc ggtgcggctc catccgggct gggagcgcg cagcgcccag 1680
gtgcagagcg cgaagagccc cggcaagaag tgcgcgcccc cggccagcgt cagcagcatc 1740
ggggctgcgg gtccggccgc ctctctgaca ccgtgtggct ggggttcggct cggcgcg 1797

```

<210> 1004

<211> 948

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(948)

<223> n = A,T,C or G

<400> 1004

```

nncgggtcccc gtcgaacgga agaagagcgt ttccacctca cgtgtgtaca cgccccacaa 60
cgcccccatc cgggttgacc ccgttttttg ccaccccccc caggttgacc tttgaaccgc 120
tactgcagtc gtaaaaataa gcgacctctc aaatttcctt caatcaggcc agaaattatc 180
acaaaaatta taatcacagt tacaaacaga atgagtggaa tgtttgtaag tttaggacaa 240
ccaaaaagcc ccatgtaact ttttaaaaat ataatcattc actcaaatat actgtaaata 300
ggaatggcag taacacagga agcaaaaata aacttgcaag tgaaatttct agaagctcat 360
gaaacaatac catcccatat tgcagatata aaaggaaaaa cagttctaag ggggttaaga 420
gtactctggt catcttcggt cgtttgtcgt gcaagggtgt aactattttc acttcccata 480
tcacaaagtt agtccacagg aggagctggt ggatcttgtc cattatgagg actggttggc 540
tttccaggta ggctggatcc tcttagatta ggaggctcga gtaagaacaa gatcaatgca 600
ataaccatcc aggtaccacaa gatcattgta aactgatgc cattatcacc agagggtccc 660
ggtaattcct gaagacactc tgtgtctgtg cagtaggact gggactgccg taacagattg 720
atcagtcctc tcattgcatg ttcattgagag caaacacatt cacagggatc aaatccacct 780
tctgccaatga ttaccagct tgattttact tgactgttta aatccgccca gacaacaacc 840
gatggggcgg ggaggtggg ggccgggacc gaggtctggc agaaagaccg cctggagctt 900
ccagaaggct gcggctgctc cggacgctgc tgccactgcc gnnnnnnn 948

```

<210> 1005

<211> 1139

<212> DNA

<213> Homo sapiens

<400> 1005

```

ctcttttagga gtgattttgt cagcatagct cctcaagtat agttcctcaa taattgatat 60
gtgaactaaa gcaacgagtt actgactgcc catacgcccc tcataaatga tggtaagcat 120
aggataatgg ctttagacag ttttattcaa aaagagagaa attgggaggc acccagcaaa 180
cactggtcta taacatttct gaattccagt cagatatgtg ttgatgattt cttgataagg 240
agctcagttc tattctctgg gagttctctg aggttcttgc ctctgccctc tgagtcattc 300
ttccttttgc ataaaaactg gcctgtgggc tctgtgtgca gccaaagtag cttcttatcc 360
tgcttctgct ccatgaaagg ttaggggatc agggcaggaa ctggaaagct tttcttgtaa 420
attaaggcca tatagtaaat attttaggtt tagcaggaca tgcgggtttt gttgaagcta 480
ctcatctttg ctgttaaaaa tgaaagcagc catagacaat aggcacaaat atgaatatga 540
ctgtgtccca gtaaaacttt atttacaaaa acagggtggt ggctggattt ggtatatagg 600
ctctggtttg ctgaccttg atatagcagt ctcttcattt ttttttcttg tctatccctt 660
tacatgtaat ctgacatgat tgcttaaaaa ttgtgtgagt ttccgggtga tctgttttca 720
aggaatccag cctattagac gaaagccata ccataagtt tctttgacac aaacccttct 780
ctatcttggg tcccctgtga ggctcctatg ggacagcact tttagatctt aaatccttgc 840
cccttagatc ctgccttttg aacaataaga gtttctgtta cacatttctt taagatctgg 900
agagtgcctt ttgtctgtct gaaagttctg gaaggcactg cctaggtctt tctaaagtct 960
tagcaaaagg ttcattctcc cccacccccc tctgccccga tactgtttct taaagaattc 1020
ctggtgacaa ttttacattt cctccaaatt ccactcaaat agttcatttt ttaagatca 1080
tctttgtcct cttttgccct ctttcagcaa atttctgcta gatcattgag tttattagt 1139

```

<210> 1006

<211> 2439

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2439)

<223> n = A,T,C or G

<400> 1006

```

ntataggagg tgcacccacg cgtccgggct tcggccggct aagcccgggc caccgcgggt 60
ctgagggacc ggaggagcgg ggccgggagc tgcgaggagc cctccagacg tcgcccagcg 120
cgagggcggg cgtgctcggg gtggtcgctc gtcagccgac gccctcagc ctccgcactt 180
gcaggtcccc tccctctccg ccgggacggc ggagagcccg gctcgcggcg gggcgggcca 240
atgcgaaact ggctggtgct gctgtgcccc tgtgtgctcg gggccggcgt gcacctctgg 300
ctgcccgtgc gctccccgcc gccgcctgc gcctccgggg ccggccctgc agatcagttg 360
gccttatttc ctcagtgga atctactcac tatgatgtgg tagttggcgt gttgtcagct 420

```

```

cgcaataacc atgaacttcg aaacgtgata agaagcacct ggatgagaca tttgctacag 480
catcccacat taagtcaacg tgtgcttggt aagttcataa taggtgctca tggctgtgaa 540
gtgctctgtg aagacagggg agatccttat tcctgtaaac tactcaacat cacaaatcca 600
gttttgaatc aggaatttga agcgttcagt ctgtccgaag acacttcatac ggggctgcct 660
gaggatcgag ttgtcagcgt gagtttccga gttctctacc ccatacgttat taccagtctt 720
ggagtgttct acgatgccaa tgatgtgggt ttccagagga acatcactgt caaactttat 780
caggcagaac aagaggaggc cctcttcatt gctcgcttca gtcctccaag ctgtggtgtg 840
caggtgaaca agctgtggta caagcccgtg gaacaattca tcttaccaga gagctttgaa 900
ggtacaatcg tgtgggagag ccaagacctc cacggccttg tgtcaagaaa tctccacaaa 960
gtgacagtga atgatggagg gggagttctc agagtcatta cagctgggga ggggtgcattg 1020
cctcatgaat tcttggaagg tgtggaggga gttgcaggtg gttttatata tactattcag 1080
gaagtgatg ctctcttaca caaccttcac tctcgccctc aaagacttat tgatcatata 1140
aggaatctcc atgaggaaga tgccttactg aaggaggaaa gcagcatcta tgatgatatt 1200
gtttttgtgg atgttgtcga cacttatcgt aatttctctg caaaattatt gaactttat 1260
agatggactg tggaaaacaac gagcttcaat ttgttgctga agacagatga tgactgttac 1320
atagacctcg aagctgtatt taataggatt gtccaaaaga atctggatgg gcctaatttt 1380
tgggtgggaa atttcagact gaattgggca gttgaccgaa ccggaaagtg gcaggagttg 1440
gagtaccoga gccccgctta ccctgccttt gcatgtgggt caggatatgt gatctccaag 1500
gacatcgta agtggtggc aagcaactcg gggagggtta agacctatca ggggtgaagat 1560
gtaagcatgg gcatctggat ggctgccata ggacctaaaa gataccagga cagtcagtgg 1620
ctgtgtgaga agactgtga gacaggaatg ctgtcttctc ctcatgtatt tccgtgggaa 1680
ctgacgggaa tgtgaaact gaaggaacgg tgcggtgatc cttgtcgatg tcaagcaaga 1740
taacagggac ttgaattagc agagtctaaa atcaggggcag gcaaacgata atctgagtgc 1800
aagtctgagg agtcccaggg tttagcagta gactgtatgg tctttcaaga gagttccaga 1860
ctggcacttt caccagaac caatgcggtg tttcttaatg tttgcacaaa tttccttaaa 1920
aatcaacttg tactgtagca taagaaaagt ttttatttat ctattggaag attatcagaa 1980
aaataccaag ttattttata aaagaaaaaa tttttctaaa tcctgatgca ttgtggctaa 2040
ttagtaattc accattacct atagtttttg gttaaaaactt ggcctagttc agaaatctgt 2100
agtgttaact gagagtttga atttcaacct ggatcgagg atagctctgt agagctaatt 2160
aggataatta tcagacaaaa aggaactcac aggaatgctg tgtgatcatg tgatcacata 2220
tttgagcagt ggtcacttat accaaagttt ggggtttctg gcaaataatg tcagattttg 2280
tggatctctg acgtgggcaa cttgaactaa cttgaagagg aaccaatatg attctcagtt 2340
tctgaacttg gtttaaagaa gttcattcat atggtagact aataacccaa atttctttct 2400
gccatctaac ataactctga aggtcacagg ttagacnnn 2439

```

<210> 1007

<211> 1014

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1014)

<223> n = A,T,C or G

<400> 1007

```

nnnnnaagac aggggtatga gctatcttcc attaaaaaac tgattctgga gcaaggagcc 60
aggaaccgtg gctcacacct gtaatcccag cactttgaga ggctaaggca aatagatccc 120
ttgactccag gagtttgaga ccagcctgag caacatggta aaaccccatc tgtacaaaaa 180
aaaaaaaaac tggcctgggc gacagaacaa gaccctgtnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnncctca gttttctaat taaattctaa catgaggcaa gcaactttac 300
ctgcaaaagt tttagtatgt aatctaccaa caaacaaaaa aaaactccat tttgcatcat 360
tatccaagat tgagaataaa aggatctgac aaatttatcc tcacacataa aggtactaga 420
aggtaaggt agagatctaa tgagaaagt atatacatat tacataattg ttctgttggg 480
taatattgcc aaaataatag ttactatcat tacatcttac agaaacaaaa actttaagct 540
tattactttt cagaaggaaa aaagtatcct ataactgaaa ataattttcg ccacaatagc 600
aaaatagaaa aaataaatct tccatgaaca ttagcaagag attttagttt ttatttgggt 660
aaagagtata ggtgtgtgtt tcaagaaaag acttttgcta aaagcagcta gcaataagat 720
tatggctatc aaaccagttt ctttcataga aagtgaccat tcottgaagt gctactgttt 780
ttgaaagttt cttagaacag tctcagcatt ctaaacagtc tgtagttcta catatttgtt 840
gttgcaatct tgggcaggaa aatcactaat aacaggaaac agaggccggg cacgggtggc 900

```

aacgcctgtc ttccagcac tttgggaggc tgaggtgggc agatcacaag gtcaggagtt 960
 tgagaccagc ctgaccaaca ggggtgaaacc ccattctctac taaaaatann nnnn 1014

<210> 1008

<211> 2100

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2100)

<223> n = A,T,C or G

<400> 1008

gggagaagca gtgaccagct gccaggccca cctgctgata cccagccaag cgcttcacac 60
 cctgggtggt agagtctgaa accggatgtt ccagggtcac gcagaacttg gaagacagag 120
 aagttttgaa tgggtgtacag acagaactac taacttcgcc aagaactaag gacacattga 180
 gtgatatgac aagaacagtg gagatttctg ggggaaggagg cccattggga atacatgtag 240
 tgcccttctt ttcattctctg agtgggaagga ttctaggact ctcatccga ggcattgaag 300
 acaacagcag gtccaagcgg gagggactat ttcacgaaaa tgaatgtatt gtaaaaaatca 360
 acaatgtgga tctcgtagac aaaacctttg ctcagggtca agatgtcttc cgccaggcaa 420
 tgaaatctcc aagtgtgctc ctccacgtgc ttctctccaca aaaccgtgaa cagtatgaaa 480
 agtcagtcatt tggctctctt aacatttttg gtaataatga tggcgttttg aaaaccaaag 540
 tgccgcctcc tgtccatgga aaatcgggac taaagacagc aaatctcaca ggaaccgata 600
 gtcctgaaac agatgcatca gcttccctgc aacaaaacaa gagtccccga gtaccaaggc 660
 tgggaggaaa accatcctct ccctcactct cgctctcat gggatttggc agcaataaaa 720
 atgcaaagaa aattaagatt gacctaaaga aaggccctga aggacttggg ttactgtgg 780
 ttaccagaga ctctccata catggtcccg gtcccatttt tgtaaaaaac attttacca 840
 agggagcagc tatataagat ggccgcctac aatcagggga cagaattttg gaggtaaatg 900
 ggagagatgt caccggacga acccaggaag agcttgtggc catgctcagg agcaccaagc 960
 agggggagac agcatcgtg gtcattgccc gccagaagg acattttctg ccccgagagt 1020
 tggatggtcg tctgcgaatg aatgaccagc tgattgcagt taatggggaa tctcttttgg 1080
 gaaagtccaa ccacgaagct atggaaacac ttaggcggtc aatgtccatg gagggaaaca 1140
 tccgagggat gatccagttg gtgattctga ggaggccaga gagaccaatg gaggatcctg 1200
 cagagtgtgg ggcattttcc aagccatgct ttgagaactg tcaaatgct gtaaccacct 1260
 ctaggcgaaa tgataatagt atcctgcac cacttggcac ttgcagtcca caagacaaac 1320
 agaaaggtct attgctgccc aatgacggat ggccgagag tgaagttcca ccttctccaa 1380
 caccacattc tgctctggga ttgggcctcg aagattacag ccacagctct ggggtggatt 1440
 cagcagtata ttttcagat cagcacatca acttcagatc tgtgacaccg gccaggcagc 1500
 ctgaatcaat taatttgaaa gcctcgaaga gcatggacct tgtgccagat gaaagcaagg 1560
 ttactcatt ggctggacaa aaatcggaat ctccaagcaa agattttggg ccaactctgg 1620
 gtttgaaaaa gtccagctcc ttggagagtc tgcagactgc agtggccgag gtcaggaga 1680
 atgacctttc ctttcacagg ccccgccgc acatggttcg aggcgaggc tgcaatgaga 1740
 gcttttagagc agccattgac aaatcctacg atggacctga agaaatagaa gctgacggtc 1800
 tgtctgataa gagctctcac tctggccaag gagctctgaa ttgtgagtct gcccctcagg 1860
 ggaattcggg gctagaggac atggaaaata aagccaggaa agtcaaaaaa acgaaagaga 1920
 aggagaagaa aaaggaaaag ggcaaatgga aagtcaagga gaaaaagcgc aaaggaggaga 1980
 atgaagatcc agaaaggaaa ataaagaaga agggcttcgg cgccatgctg agatttggaa 2040
 agaagaaaga ggataagggt ggaaaggctg agcagaaagg tactctgaaa cannnnnnnn 2100

<210> 1009

<211> 1331

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1331)

<223> n = A,T,C or G

<400> 1009

```

nnnnngccct cgaggccaag aattcggcac gaggttctga tgttggagga ggggcgcgag 60
cgcgcgccaa atcgggtgctg gaagaggtaa aaaaggaact gggagcgagc cgcgcggtt 120
cctgtcctta cagttgcgct gccaggggac cgatgttgctg cgaggaaaat gcgggacgcc 180
cagggccatt tctgagcagt ggaggtttca agtaatccac taacaaccag ttccaaattc 240
tgtcatcaaa tcctgtgctg ctgttcctcg tggtaataga tgcatattat ttcttttatt 300
taaaagaaat gaatgtgact agtattgcat taagagctga aacttggctt ttagctgcat 360
ggcatgttaa agtacctccg atgtggctgg aagcttgtat taactggatt caagaagaaa 420
ataataatgt taacttgagt caggcccaaa tgaataaaca agtgtttgag cagtggctcc 480
ttactgatct gagggatttg gagcatcctc ttttaccgga tggcatttta gaaattccaa 540
aaggagaatt aaatggattt tatgctctgc agattaattc cttggttgat gtaagtcagc 600
ctgcatactc ccagatacag aagttgagag gaaagaatac aacaaatgat ctagttagc 660
ctgaagcaca agtaacccca aaaccttggg aagcaaagcc ttacgaatg ttgatgctgc 720
agctaactga tggaatcgta caaatacagg gaatggaata tcagcctatt ccaattcttc 780
atagtgatct tcctccaggt acaaaaattt tgatttatgg aaatatatct ttccgtcttg 840
gtgttctctt attgaaacca gaaaacgtga aagtgttagg aggtgaagta gatgctctt 900
tagaagaata tgcccaagaa aaagtacttg caagattaat aggggaacct gatctttag 960
tttcagtcac accaaacaat tctaacgaaa acattcccag agttacagat gttctagatc 1020
ctgcattagt ccttctgatg aagaactctg gcagtctgtg aaacatgatg agcttacgnc 1080
aatatgacac ttctcgaaac gagtttcaca cagtgttcct caatacactc cccagaaaaat 1140
ctagtttggc ccgattgtgt tgttcccaaa ccaagaggac ctaccattt atgttggagg 1200
tcgatacatg gctccggggg gcgtttaaaa gtcacacaaa caggaaagag actttaacgc 1260
ggaaaaaata cacaacattg tggaaggggc acaaaaaact ctgctccacg aaatatagtg 1320
atannnnnnn n

```

<210> 1010

<211> 3099

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(3099)

<223> n = A,T,C or G

<400> 1010

```

nngcctgtat cgttatagat cctcgcgaat acaagttaat tctcgtgtgg tcacgctgtg 60
cgcggtcggt ccacgcttta tcttgttcac cggttgtct aggcgggtca gaccgggtg 120
ggtatgaacc cggtggcatg cccgcgatag ggccatact cgcggggaag ctccgagggg 180
ccacgtagat ctttatctta aaggtgttac tgcgatacaa tgtgttaaat ttctaatat 240
ctctagatat gcaacatgtc ttgcttttca ggctaaggct cagatgtgtc gtgagacagt 300
ggattttgta ggtcttctgc gaagtataga atattttgtg tgtgtactcg ctgtcgtctg 360
gatgatttat ttttgggtt ttttggttt gttttatagg tgttttagatg tagttcatca 420
tgtgatgtgc gcggaatttt gctggtgtgg tcggtctagc ggtccttttg aggttctctc 480
tggcactggt ttcgtgggtg ggggccgtgt ggtoactgtg tttggtttgt tgccttttag 540
gtctgctatg gtggtgttca tgggtgcccc cgttttgtgt gtctcttccg tgggttggtg 600
agtccctctg cctttatcca attatctatg ttcgctagta aattatgttt cacacggcgt 660
gagggggttg ttggcgcgct gtggttagatt cccactgtac tactcgagg agggctgaga 720
gcacggggag gtgtcgtctt ttgtacctcg ggaggtgttg atggtgttcc ctggtggggc 780
tcgtccaggt tgggtccctt gtccttcttc tcttcttggt cggtctata gtgaggacct 840
ctttccgtat atatataata actataaggt aagcagtagg aaagtgaat tgaaggagag 900
ggtagtaaaag gtagctggaa aagagagagt ttggagtatg gttgagaatt gacgtgaat 960
tgtttagaat agagattagt aacagacaat aaaagagaaa ctggtttttc caagtcaagg 1020
gtgagcagaa accgggagct tcctgctcgt gttcgtgtt gagaagctac ccgcggggtt 1080
gtagacctcg gacctcatgg cagagataat tcaggaacgc atagaagatc ggctcccga 1140
attggaacag ctggagcgca ttggactgtt cagtcatgcg gagattaagg ctatcattaa 1200
gaaggcttcc gatctagagt acaaaatcca gagaagaacc cttttcaagg aagactttat 1260
caattatgtt caatatgaaa ttaatctttt ggagctgatc cagagaagaa gaacacgc 1320
tggaatttca ttttaagaag atgagattga gaattctatt gtacaccggg tacaagggtg 1380
tttcagcgt gcctcagcaa aatggaaaga cgatgttcaa ctttggctct cctatgtggc 1440
tttttgaag aagtgggcta ctaaaactcg acttagcaag gtattctctg ccatgttggc 1500

```

```

gattcattcc aacaaaccag ctttgtggat tatggcagcc aaatgggaaa tggaagatcg 1560
attgtcttca gaaagcgcaa ggcaactatt tcttcgcgca ctgcgctttc atccagagtg 1620
cccaaaactt tataaagaat acttttaggat ggagctgatg catgctgaaa aactgaggaa 1680
ggagaaggaa gaatttgaaa aagccagtat ggatgtggag aatcctgatt attctgaaga 1740
aatccttaag ggcgagttgg catggatcat ctacaaaaat tctgtaagca taattaaagg 1800
tgcagaattt cacgtgtcac tgctttcgat tgcacagcta tttgactttg ccaaagatct 1860
acaaaaagag atttatgatg accttcaggc tctacacaca gatgatcctc tcacttgga 1920
ttatgtggca aggcgagaat tagagattga gtcacagaca gaagagcagc ctacaacgaa 1980
acaagccaaa gcagtggagg tggccggaa ggaggagagg tgctgtgctg tgtatgaaga 2040
ggcagtgaag actctgccaa cagaggccat gtggaagtgt tacatcacct tttgcttgga 2100
aagatttact aagaagtcaa atagtgggtt ccttagaggg aagaggttgg aaagaaccat 2160
gactgtattc aggaaggcac atgaactgaa gcttctgtca gaatgccaat acaagcagtt 2220
gagtgtttcg ttgctgtgtt ataacttcct gagggaaagt ctggaagtgg cagtagctgg 2280
aactgaattg tttagagact ctgggacaat gtggcagctg aagctgcagg tgctgatcga 2340
gtcaaagagc cctgacatag ccatgctttt tgaagaagcc tttgtgcacc tgaaacccca 2400
ggtttgtctg ccattgtgga tttcctgggc agagtggagt gaaggtgcc aagccaaaga 2460
agacactgag gcagtcttta agaaagctct cttagctgtc ataggtgccg actcagtaac 2520
cctgaagaat aagtacctgg attgggctta tcgaagtggg ggctacaaaa aggccagagc 2580
tgtgtttaa agtttacagg agagccgacc attttcagtt gactttttca ggaaaatgat 2640
tcagtttgaa aaggagcaag aatcctgcaa tatggcgaac ataagagaat attatgagag 2700
agctttgaga gactttggat ccgcagattc tgatctttgg atggattata tgaaagaaga 2760
attcaaccac ccccttggtg gacctgagaa ctgtggacag atctactggc gagcgatgaa 2820
aatgttcag ggagagtcag cagaggcatt tgtagctaaa catgctatgc atcagactgg 2880
ccatttatga agatgaagaa tacagtcagc tttgtgaaat agtattgcaa gcaagccccg 2940
tgggcaaatt tgtattgagt ccactgttaa tttgctcagt gatggcagac aagatggctg 3000
tctggttttg agacacactt taattttatg ttaacttgtt aaatctttt aaaaattaaa 3060
aaatttttat gattgagaaa ccaacaacac caccacaan 3099

```

<210> 1011

<211> 3099

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(3099)

<223> n = A,T,C or G

<400> 1011

```

nngcctgtat cgttatagat cctcgcgaat acaagttaat tatcgtgtgg tcacgctgtg 60
cgcgtgcggt ccacgcttta tottgttcac cgggttgtct aggccgggtc gaccggtg 120
ggtatgaacc cgggtggcatg cccgcgatag ggccatact cgcggggaag ctccgagggg 180
ccacgtagat cttatctta aaggtgttac tgcgatacaa tgtgttaaat ttctaatat 240
ctctagatat gcaacatgtc ttgcttttca ggctaaggct cagatgtgtc gtgagacagt 300
ggattttgta ggtcttctgc gaagtataga atattttgtg tgtgtactcg ctgtcgtctg 360
gatgatttat ttttgtgggt tttttgtttt gttttatagg tgtttagatg tagttcatca 420
tgtgatgtgc gcggaatttt gctgggtgtg tgggtctagc ggtccttttg aggttcctct 480
tggcactggg ttctgtgggt ggggcccgtg ggtcactgtg tttggtttgt tgcttttgag 540
gtctgctatg gtggtgttca tgggtccccg cgttttgtgt gtctcttccg tgggttggtg 600
agtccctctg ctttatcca attatctatg ttcgctagta aattatgttt cacacggcgt 660
gagcggttg ttggcgcgct gtggtagatt cccactgtac tactcgagg agggctgaga 720
gcacggggag gtgtcgtctc ttgtacctcg ggaggtgttg atggctgtcc ctggtggggc 780
tcgtccaggt tgggctccct gtcttcttct tcttctggg cgggtctata gtgaggacct 840
ctttccgtat atatataata actataaggt aagcagtagg aaagtggaat tgaaggagag 900
ggtagttaaag gtacgtggaa aagagagagt ttggagtatg gttgagaatt gacgtgaat 960
tgtttagaat agagattagt aacagacaat aaaagagaaa ctggtttttc caagtcaagg 1020
gtgagcagaa accgggagct tcctgctcgt gttcgtgtgt gagaagctac ccgcggggtt 1080
gtagacctcg gacctatgg cagagataat tcaggaacgc atagaagatc ggctccgga 1140
attggaacag ctggagcgca ttggactgtt cagtcagtcg gagattaagg ctatcattaa 1200
gaaggcttcc gatctagagt acaaaatcca gagaagaacc cttttcaagg aagactttat 1260
caattatggt caatatgaaa ttaattcttt ggagctgatc cagagaagaa gaacacgcat 1320

```

```

tggatattca ttttaagaagg atgagattga gaatttctatt gtacaccggg tacaaggtgt 1380
tttccagcgt gcctcagcaa aatggaaaga cgatgttcaa ctttggctct cctatgtggc 1440
tttttgaag aagtgggcta ctaaaactcg acttagcaag gtattctctg ccatgttggc 1500
gattcattcc aacaaaccag ctttgtggat tatggcagcc aaatgggaaa tggagatcg 1560
attgtcttca gaaagcgcaa ggcaactatt tcttcgcgca ctgcgctttc atccagagtg 1620
cccaaaactt tataaagaat acttttaggat ggagctgatg catgctgaaa aactgaggaa 1680
ggagaaggaa gaatttgaaa aagccagtat ggatgtggag aatcctgatt attctgaaga 1740
aatccttaag ggcgagtggg catggatcat ctacaaaaat tctgtaagca taattaaagg 1800
tgcagaattt cacgtgtcac tgctttcgat tgcacagcta tttgactttg ccaaagatct 1860
acaaaaagag atttatgatg accttcaggc tctacacaca gatgacctc tcacttggga 1920
ttatgtggca aggcgagaat tagagattga gtcacagaca gaagagcagc ctacaacgaa 1980
acaagccaaa gcagtggagg tggcccgaa ggaggagagg tgctgtgctg tgtatgaaga 2040
ggcagtgaag actctgccaa cagaggccat gtggaagtgt tacatcacct tttgcttggg 2100
aagatttact aagaagtcaa atagtgggtt ccttagaggg aagaggttgg aaagaacct 2160
gactgttattc aggaaggcac atgaactgaa gcttctgtca gaatgccaat acaagcagtt 2220
gagtgtttcg ttgctgtgtt ataacttcct gagggaaagct ctggaagtgg cagtagctgg 2280
aactgaattg tttagagact ctgggacaat gtggcagctg aagctgcagg tgctgatcga 2340
gtcaaagagc cctgacatag ccatgctttt tgaagaagcc tttgtgcacc tgaaacccca 2400
ggtttgtctg ccattgttga tttcctgggc agagtggagt gaaggtgcc aagcccaaga 2460
agacactgag gcagtcttta agaaagctct cttagctgtc ataggtgccg actcagtaac 2520
cctgaagaat aagtacctgg attgggctta tgaagtggg ggctacaaaa aggccagagc 2580
tgtgtttaaa agtttacagg agagccgacc attttcagtt gactttttca ggaaaatgat 2640
tcagtttgaa aaggagcaag aatcctgcaa tatggcgaac ataagagaat attatgagag 2700
agctttgaga gagtttggat ccgcagattc tgatctttgg atggattata tgaaagaaga 2760
attgaaccac ccccttggtg gacctgagaa ctgtggacag atctactggc gagcgatgaa 2820
aatgttgagc ggagagtcag cagaggcatt tgtagctaaa catgctatgc atcagactgg 2880
ccatttatga agatgaagaa tacagtcagc tttgtgaaat agtattgcaa gcaagccccg 2940
tgggcaaatt tgtattgagt ccactctgtaa tttgtctcagt gatggcagac aagatggctg 3000
tctggttttg agacacactt taattttatg ttaacttggg aaatcttttt aaaaattaaa 3060
aaatttttat gattgagaaa ccaacaacac caccacaan 3099

```

<210> 1012

<211> 1797

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1797)

<223> n = A,T,C or G

<400> 1012

```

ncgcccagcgt tttcccggga ccccaggtgt gttggcccca aacgcgggtcc caactcttgg 60
cgcccccccc cccaggagtt tgggggtctta acaagagtc cttgccgtga tgggggttggc 120
caacccatgg ttatttgtac cgtccaaagt gccacccatg aagtgtcccg ccaattcaca 180
agccgactta cttccagacc agtcatcctg cttctgcggg cccagtgcc acggtactgt 240
cctgagtggg ttggaagggt ggtagccgct gatacaggga caggcagatg tgcagacact 300
taccaccctg gtccaccgat cccaccccat gcttccacct cccagagctc ttgagataag 360
accttaagaa ggatccttgg gcttgcatta aaaccacttt gctgtccgtg gaggtctaac 420
aggaccaat agttgttact acaaaagtgc ttttgcaaat agggcaagtt agaagaagga 480
ggtaatatga atattcttta gaaaaactca aatccatcgg cttatcaata cccaaagtct 540
gaggctaacc agggcacaaat ttggtccatg gaatgctgag tggaggaggc agctgggtgtg 600
aggctgcgcc tgactcccag gagcatttag ccattctttt tggcttgggg agtgtcaaag 660
agccggactg ccttcctgca cagcagacag aaccagtaga tctgaggagc tacgaggaag 720
gcattggcca cgttgcagta gaatgggatg ctgaagggtg cttggagcag gcttagtccc 780
tgctggcggc cataggacca gtacatgaag gggaagagaa ggatccggca ggaaaggaag 840
gtggccagcg tgagattcc attcaccttg tacagaaggg tgtgctgctg ctttagctga 900
atcaataacc tggccagcga cacaaacgga gtgctcagtt ctgccgtgaa gatgcagccg 960
acaaagaagt ccccaaggtc tccccggagc ctctgtgcga ctggcacaaag gacaaagagg 1020
atgaccgcat gatgtgtgat catgaggcgg tttcgactta ggaagtttcg aagagtggag 1080
gagggcgcac ggttctggtc tctggttcgg caccattcac agaggtacat ggcgtacgag 1140

```

tcatagatca	tgtatggaat	cagaaaccac	acatattccc	gggcaagcca	gtgcctgccg	1200
gtgatcacgt	cgtcgcagga	gcgaatgatg	acgatccccg	agccggtggc	cagcaogggc	1260
tgcaccgagg	aaaccagcct	agcgcggggc	gagaggagaa	cagcgcgcgc	gctcagtccg	1320
gtccgaggac	cgcaggagac	ccggccccgc	ccggcccttc	ggcctgactc	tccccagccg	1380
caggcagatg	tggggagcgg	gctccggagg	ctcaatcggc	catttcccgc	ccgcccgcgg	1440
ccccgctccc	gccaggggag	gacgcggagg	ggcttcggaa	actcggggcc	ccgggacgcg	1500
gagggagcag	cccccgggct	tcctgccgcc	cccccttttc	gccctggggc	ccgcggccgg	1560
gtgggggtgcg	gtgggcagcg	ccccgggcct	cggggggcgt	ctcggcgggc	ccggttcctg	1620
gtgctgatca	tcacgcagtc	ggtgcggctc	catccgggct	gggagcggcg	cagcgcgccg	1680
gtgcagagcg	cgaagagccc	cggcaagaag	tgcgcgcccc	cggccagcgt	cagcagcatc	1740
ggggctgcgg	gtccggccgc	ctctctgaca	ccgtgtggct	gggttcggct	cggcgcg	1797

<210> 1013

<211> 2288

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2288)

<223> n = A,T,C or G

<400> 1013

nnagggagtc	gaccacgcg	tcgcagccg	gctggctcga	gtggccttcg	tcgtcccttg	60
gcgccctggg	agagtcgctg	acgggtggac	tgacggaccg	cctgaggacg	gccggccagg	120
gcggtgaaag	cgccagccct	atggcgcggg	tcgcgtgagg	cggaaaggccg	aggacggccg	180
gcggcggcgc	ccgccccggc	gatgcggggc	ccgcccgtcg	cctcagggtgc	catttggatt	240
gtactttagt	ggcacgatgt	actctgagtg	gaggtcactg	catttgggtga	ttcagaatga	300
tcaaggccat	accagtgtgc	tgcacagcta	tcacagagagc	gttggaacgag	aggtggcaaa	360
tgctgtagtc	cgtcctcttg	ggcagggtgtt	aggtaccct	tcagtggctg	gtagtgaaga	420
tttgttaaaa	actgacaaag	aagtaaaatg	gaccatggaa	gtaatttgct	atggactgac	480
ccttccattg	gatggagaga	ctgtaaaata	ttgcgttgat	gtatatacag	actggattat	540
ggcttttagtg	ttgccaaaag	attctattcc	attgccagtt	attaaagagc	ctaataata	600
tgttcaaact	atactaaaac	acctacagaa	tctttttgta	ccaagacagg	aacagggttc	660
cagtcagatt	cgactatgct	tacagggtcct	gagagccatt	cagaaactgg	cccgtgagtc	720
atctctcatg	gcccagaaa	cttgggaagt	cttactgttg	ttcttctgc	agattgcca	780
catacttctg	ccccaccac	ctgttcaagg	tggcattgct	gagaatctag	cagagaagtt	840
gattgggtgtt	ctctttgagg	tgtggttact	agcttgact	cggtgcttcc	caacacctcc	900
ttattggaag	acagccaagg	agatggtggc	taactggagg	catcaccag	cagtgggtga	960
gcagtggagc	aaggtcattt	gtgcactcac	ttccagattg	ctacgcttta	catatggtcc	1020
ttcatttcct	gcatttaaa	ttcccgatga	agatgccagt	ctgatccctc	cagaaatgga	1080
taatgagtgt	gttgacaga	catggtttcg	ctttttacac	atgttaagta	atcctgtgga	1140
tttgagtaac	ccagctatta	taagctctac	tcccaaattt	caggaacagt	tcttgaatgt	1200
gagcggaatg	cgcagaagt	tgaatcagta	tcctgcctt	aaacatctgc	ctcaaatatt	1260
ttttcgtgcc	atgctgggaa	tcagctgtct	ggtggatgca	ttcttaggta	tttctagacc	1320
ccgatcagac	agtgtctccc	caacaccctg	gaatagatta	agtatgcctc	aaagtgtctg	1380
tgtcagtacc	ccccccccac	ataaccggag	gcaccgggct	gttactgtga	ataaggccac	1440
catgaagaca	agcacagtta	gtactgtctc	tgcctctaaa	gttcagcacc	agacgtcctc	1500
cacctctcct	ctgtcaagtc	caaatacagac	tagttcagaa	ccccggccac	tgcttgcccc	1560
tcggagacca	aaggttaaca	gcatcttgaa	tctctttgga	tcattggttat	ttgatgcagc	1620
atttggtcac	tgtaaaacttc	ataatgggat	aaacagagac	agcagcatga	ctgccattac	1680
aacacaagct	agcatggagt	ttcgacggaa	agggtcacaa	atgtccacag	acaccatggg	1740
ttccaatcct	atgtttgatg	caagtgaatt	tcctgataac	tatgaagcag	gaagagctga	1800
ggcttgtggg	acactgtgta	ggatttttgt	agcaagaaga	ctggagaaga	gattctgcca	1860
gcttattttat	ccaggctctg	gaattttgtt	gtttttcatt	tatatagttt	tgatagtga	1920
gccattgtgg	gttgcccgac	tgaaccgatg	agtgatgttg	gtctgaaata	cctacagatg	1980
tctgtaagtg	atcgacattt	gcctgaaatc	tttcatttta	cctgtctcat	cagattgtgg	2040
taaggaccct	taagaaccct	tttgtttgag	aagtgtcaat	ttatgtcatc	ttatggactc	2100
tcttaatatg	gcgaacattc	gaaggaccac	cttcttggtc	accccatctc	tagcgcgtat	2160
ccccgttggc	gtccgaatta	gtcagtgtaa	tctgcccagg	agtattcggg	aagcccaaaa	2220
gcgggcctgt	tcagccccga	cgctgtggcg	ccacaggggg	ggccgcgaac	ccctttgggg	2280

accaannnn

2288

<210> 1014

<211> 852

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(852)

<223> n = A,T,C or G

<400> 1014

```

ncgtccgccc acgcgtccgc gatgactctg accatcttct gggtttatct ttcttctgat 60
cctatcccac caggagattg atggcaacgc tctgctgttg ctgaagagtg acatgggtcat 120
gaagtacctg ggcctgaagc tgggacccgc actgaaactc tgctaccaca ttgacaaact 180
gaagcaagcc aagttctgac gtttttaaaa agacagaagc gaaacccaaa acaacagatc 240
ccaagattat cttctgcctt accaatatcc cgccaacatc acaaaataga ctctcctctt 300
aaaattaaca gccacagaga cgtggtcttt ttataaaact tgtgaatctt tgccctttga 360
agaatttaac atggaccttt tcgagaggct cctctgtgtt cataatttgc caaaaaatta 420
caaaagcctg tgatttttaa catccctgtt atgctgattt ctctttaagt gggtcctatt 480
tgcataacga gagagtgggg aactgaatgc ttatgcccaa ggagagtctt ggagggttca 540
aaggatgaaa gaaggacctt tgtccctgcg gtctctgcag ggacaacccc ctacagacca 600
tctgcctcta actctgacct ggggacctat ccatgtgagc cttgtttgcc tcagctctgg 660
aagctgactt ctgaagatga ctgcctcacc ttgactgtc tggaactt gaattatttt 720
acgccgtgca aaaaaaaaaa aacaaaacaa caattttttg ggcccaaac aatcgaagaa 780
gggggtcccc gataagggcg acggtaggaa ttaggacctc attgatgaga accgatgtca 840
gcttagannn nn

```

<210> 1015

<211> 2952

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2952)

<223> n = A,T,C or G

<400> 1015

```

nnnnnnnaaa gggggaaatg ggccccttaa aaaaaaaggc aaaaggcccc ccttttttag 60
gaaatttccc aatcaattca ttccatcett ccgcgcgcgg ttcccttaca acaccggttc 120
acccccctt ttgtaccctt ttccgttcct accttcctt ttctgcccc cacaagttaa 180
ctttcgggcc agcccccaa ttttgttttg taaattttta catgcattta ttaaatttat 240
atgcagatga ctacactact gcaattacag aaatgagtaa gaacatactc tcaagatctt 300
acagtcattg gttggggtga aagtatttct tctgtcttca tgaaaaatta aaaagataga 360
aaatcttgaa gtattttgct accttaaaac aactaccac cctacatttg tactaaaata 420
ggcttttgct tgttttaaaa gcaattctag atgaggttat atttttacaa tactgtatct 480
catctcaaat aaattttatac attctttacc ctgtctaaac ttgcatgcaa aataagaacc 540
agcaagcctt caaacttcaa tcacagtatt ccataggcta tattttaagt ctattgcatt 600
agttgaaatt tattttgcag agtatgttaa caaacatatt ctaacactta aaaaatcatt 660
acaatttttt ctgtttttgt cttctaaatt actctgagca gtgaattact ggagggaaga 720
taccatgtc taaaatttgt gtctgtgtgc agtctcagat ttctgccaaa caccagtagg 780
tattcaaaag tgtggtccct ttaaacagc aggcgggata tcaccttct gtcttcaaag 840
attcaaacca gactcccaat ctgggatttc tctacagagg gttggctgct tcccagttaa 900
tgtgagtttt gcaaagtgtt catttcatga aaacagtgtt gtgtaaacat atattgtgtc 960
actttacctt ctatttacta aaatcagaga gtttagcctt tgaaatttat ggttctctgg 1020
agctatcata atcaatcag tcatacgaat ggactagctg tagactcagg atatcaataa 1080
aactaggcag tgaaatttgc ctataattat actatattta gattaatagt tatcaaaaac 1140
atttttcccc aaaaaatacc tcaagggtaa aacagaatgg taaagttttt ttcaggataa 1200
tgaattttca aacatttcca agaccataac cagccatttt aagtactgta aactctgtta 1260

```

```

tatttcattt ggataagtat ctaataagca attattacat atcctctcat tttaaattacc 1320
actgaaaact agaaataatc tttatttaaat acgactgttt taacaccata tgggaacggga 1380
aataactaaa tgaaaaattgt tcacgtaaat gtgatgggag tgggggggtg gggagcagta 1440
tttcttgaca tgtggcatgt cactcaggaa agtaaaaggc ccatcatatc caaaatgcca 1500
gcttgatat tcccttgcca cccacttgac gaacagacat accacatggc attaaatgct 1560
gcaacctttc ctaaaaatgc cacttggtat ggtccgctgt ggtgagtata taagaactct 1620
tggctctgtc cttgagtcgt tgagttcaaa ggggaagaatc tagtaataaa caccggctaa 1680
attttgccc cagatgtttg gcataaatga tttgtgagga tattggaacc tttggctgtt 1740
ttcacaccaa tgaaataaat tatgtactt gaaaaaaatt ctacagaaca taatgctaca 1800
cagtcacagt cgactttttg caaaagtacc agagaatatc ttttagaaac agtgcttata 1860
aagccccata tactccttag atatttccca aggatttctt ctcttggtta gcaggaaaac 1920
aatcttaata ttttatttat tcttcataaa tacaatgtat ataataaaa acactttgtg 1980
cacatgtttc caacaatttc attttctatg catctttaca taaggtagta gctaataact 2040
ctttctgtgg acacgtatatt tccagttttc taaggtttat gtgttcaagc attgtaaaaa 2100
catatttaaa aattgaatta ccagtaaaaa tattgaatgt acaggtcatt atgctccac 2160
aaatacaaaa tacattgaaa aattatatca acagataatt acatatgaaa tatgagcat 2220
atattttctt ctattattta ttttctccct aaagagttct aattgattaa atctcaagag 2280
acaaaatgta attttataaa acaactgtat tgttcagatt taggagacaa cctaagaaga 2340
tgattctgag taggtaggat ttttgcattt actgttatgt gaaaaagact gctcaattaa 2400
atgacagatt gttacatata tccctaacia gaggggagaa ctgatactac aagcagccag 2460
aacaacataa ttagaataga attccaaggt tatattaata gagtaataag ttaattaaaa 2520
ccaagatcaa ctgagcttct atttacacca gttcagacag cccaagagga aaagaactct 2580
attttagaga catatgtgac tctttgagct tctgtcatcc aggtgccatt tctgatgac 2640
cacatgtgca ctgaacaggt ggcaaaagag gaaaagaggt atggtagatg tatgtgcaga 2700
tagtctctct aatgatgtaa aatacgtcca gaaagaaaagc agggctttgt tgtaaaaaaa 2760
aaaatttccc atgacttttt gttctttctg aatgtgattt gagcatgttt ctgtaaaaaa 2820
gaatatatac taacttatga tgtatataga acaaaaatag acttactcat caggaagtga 2880
tggaattatg cacataaatt ggcaatgaca tttgaaaaat ttaggatctg gttcccatct 2940
tcatctaaat gt 2952

```

<210> 1016

<211> 2040

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2040)

<223> n = A,T,C or G

<400> 1016

```

cgacccaacg gtccgcgcgt caggccgctc ctctcggctc cgcgctcctt ccctcgcgcg 60
tgggcacccg ccccgagcgc gtgagagcgc gtgcgcgcgc gcccttctcc gtgggagcgc 120
cagccagtcg cgctgcacac gctcgcagtc tgtgggccct cgggagggcg gcgagggtca 180
ccgcggggag aggggcgggc gcagcatggc agctcctta cggctcctcg gagctgctc 240
cggtctccg tactggagcc ggcggctgcy gccggcagcc ggcagctttg cagcgggtgtg 300
ttctaggtea gtggcttcaa agactccagt tggattcatt ggactgggca acatggggaa 360
tccaatggca aaaaatctca tgaaacatgg ctatccactt attatttatg atgtgttccc 420
tgatgcctgc aaagagtttc aagatgcagg tgaacaggta gtatcttccc cagcagatgt 480
tgctgaaaaa gctgacagaa ttattacaat gctgccacc agtatcaatg caatagaagc 540
ttattccgga gcaaatggga ttctaaaaaa agtgaagaag ggctcattat taatagattc 600
cagcactatt gatcctgcag tttcaaaaaga attggccaaa gaagttgaga aaatgggagc 660
agtttcatg gatgccctg tttctgggtg tgtaggagct gcaagatctg ggaacctcac 720
gtttatggtg ggaggagttg aagatgaatt tgcgtctgcc caagagttgc tgggggtgcat 780
gggctccaac gtggtgtact gtggagctgt tgggactggg caggcggcaa agatctgcaa 840
caacatgctg ttagctatta gtatgattgg aactgctgaa gctatgaatc ttggaatcag 900
gttagggctt gacccaaaac tactggctaa aatcctaaat atgagctcag gacgggtgtg 960
gtcaagtgac acttataatc ctgtacctgg agtgatggat ggcgttccct cggctaataa 1020
ctatcagggt ggatttggaa caacactcat ggctaaggat ctgggatttg cacaagactc 1080
tgctaccagc acaaagagcc caatccttct tggcagctct gccatcaga tctacaggat 1140
gatgtgtgca aagggtactt caaagaaaga cttctcatcc gtgttccagt tcctacgaga 1200

```

```

ggaggagacc ttctgagtgt gccctttggc cacggacact gttgggaacc aaactctgtc 1260
ttggagcctc ctttttagctc actccacaag taaatggatt taatcaaagg tcacctatct 1320
gcttttgatt gtctaggtca cagtaatccc taggattttt caccgcttat tctttttgtc 1380
tttttaacaa acatattatc cgaatttttt ttctgcaagc cactgatagt ctctgctaac 1440
tagcttaatt gaccttttta caaagtttga tccccaagca tcctcaacta aatcattgaa 1500
tacttcaatc aggatattat ctgctttact ttacaaataa aaccaaactc tttgtcaaca 1560
ggatgaaacc catcttaaag gaaagaaaag gaattgggtg gaagagagaa gttagagaag 1620
ggaaatgcag tgaattacta tctgtgtcca tcaggaagtt tgtcctgtta accaaatggg 1680
tactgcacta ccagggttac tgggtttatt tccaggagc tgataaagca ggagaactgt 1740
tgctgcatgt tttctatttg gactccgtca caatatggta ggatatccct caccaactcc 1800
cgacactcag cagacttggt tttatatatt tttctttctt gtacattctt actacgtatt 1860
ttttgactta agaatgacat ctttagagcg atttcagagc caatgatgat atttgcttta 1920
gataattatt atattattat aaatatagcc atattatttt gaattcaaat aaatttctat 1980
actggccgcc taggatgtaa acccgagtaa ctcgacaat atggttataa atatataann 2040

```

<210> 1017

<211> 1566

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1566)

<223> n = A,T,C or G

<400> 1017

```

nctatagggg gtgacccac gcgtccggcc ctttcttctt ttaatctccc ttctgtcagt 60
tgattttcag gcaaccttca gaaggcagag aagacgtctg cccttggctc ctgcactagc 120
gacttaaaagg atgactcctg ttaagtttca ttatcctagt atcagcctga atggactagg 180
acacatTTTT attttaaagt ttgagctcta gcaatggagt cagacagcaa cacagcttgg 240
ggagccacct ctgtcaacaa gggaggagaa agttgagaag tgccatgaaa atgtccctgc 300
ttcatactgg gcctctcagc aaacttctct tgctgacagg aattatttcc ctctatgatt 360
gtatttttaa gaggcgccta gattatgac agaagttgca ccgagatgac agagaacatg 420
caaaaagcct gggacttcat gttaacgaag aggaacagga gaggccgggt ggagtgtcga 480
cgtcttctgt ctatgggaag cgcattcaatc agccatttga gccctaaac cgggactttg 540
gccgtgccaa ccatgtgcag gctgacttct acaggaagaa cgacatcccc agcctcaagg 600
aaccgggctt tgggcacatt gctccatcct gaagcatccc cgtggccccc agggcatgtc 660
cgataccctg tggcctggca agtttgcaca gcgagaaggt ggcactctga gcctccttct 720
cccttctcat gacgcctagg agcttggcta tgccctgtgt gcatctctac agtgggacac 780
atgaacacgt tagcagcccc cctcagggtg ctgggttagg agcctgacca acaacacctt 840
tagtacatgt gaagagtctc tgatgtgatg attttcagct ggaattattt ttgatcaaat 900
gaatctggag accgattcat tgtgagcacc tgaataaaat gaaaactttg tttcccttgc 960
gtaactgttg ggttggtttc tgttctactg ctctctacat ttgccaggat tctttgggga 1020
ggcagtcaca ggagtggagt gcagttgctt ttcccacgag ttagggggaac tcctgctgcc 1080
tgaacacaaa caaccctgac atgttccctt ctccaagagg agatgtgatg acaattgtct 1140
tttggcacia ttgaactcta gaaactccat ttttgTTTT ccagaggtct gaatcccaaa 1200
taacagaatt ttgtgcagta gggaccagga gccctagtaa ggatgggtgg ccctgggtggc 1260
cagcaatgct cactattact gctcagagag agggggccag tcatgggaag aggctagatt 1320
tcgggtgttca aaaaacttgg gtaaaattct ggttgctgca ttttctagat ttgtgttcta 1380
gggcaagtca tatcatctac atgagcagac atttcctcat atttaaagtg gaatttccaa 1440
acctagaaga gtcatgcgg gaggcaatga gctgctggag cacaggcata acacaggtac 1500
ctgcccgggc ggccgctcga tttgctattg gagcacaacc tcttttggac catcaataca 1560
cagtgc

```

<210> 1018

<211> 1566

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(1566)
 <223> n = A,T,C or G

<400> 1018
 nctataggga gtcgacccac gcgtccggcc ctttcttctt ttaatctccc ttctgtcagt 60
 tgatttttcag gcaaccttca gaaggcagag aagacgtctg cccttggtc ctgcactagc 120
 gacttaaagg atgactcctg ttaagtttca ttatcctagt atcagcctga atggactagg 180
 acacatTTTT attttaaagt ttgagctcta gcaatggagt cagacagcaa cacagcttgg 240
 ggagccacct ctgtcaacaa gggaggagaa agttgagaag tgccatgaaa atgtccctgc 300
 ttcatactgg gcctctcagc aaacttctct tgctgacagg aattatttcc ctctatgatt 360
 gtatttttaa gaggcgccta gattatgac agaagttgca ccgagatgac agagaacatg 420
 caaaaagcct gggacttcat gttaacgaag aggaacagga gaggccggtt ggagtgcata 480
 cgtcttctgt ctatgggaag cgcatcaatc agccattga gcccctaaac cgggactttg 540
 gccgtgccaa ccatgtgcag gctgacttct acaggaagaa cgacatcccc agcctcaagg 600
 aaccgggctt tgggcacatt gctccatcct gaagcatccc cgtggccac agggcatgtc 660
 cgataccctg tggcctggca agtttgaca gcgagaaggt ggcatctgga gcctcctttc 720
 cccttctcat gacgcctagg agcttggtta tgctgtgtt gcctctctac agtgggacac 780
 atgaacacgt tagcagcccc cctcagggtt ctgggttagg agcctgacca acaacacctt 840
 tagtacatgt gaagagtctc tgatgtgat atttccagct ggaattattt ttgatcaaat 900
 gaactctggg accgattcat tgtgagcacc tgaataaaat gaaaactttg tttccccttg 960
 gtaactgttg ggttgggttc tgttacttgc ctctctacat ttgccaggat tctttgggga 1020
 ggcagtcaca ggagtgggt gcagttgctt tcccacagag ttagggggaa tcctgctgcc 1080
 tgaacacaaa caaccctgac atgttccctt ctccaagagg agatgtgat acaattgtct 1140
 tttggcaca ttaactcta gaaactccat tttgtttt ccagaggctt gaatcccaa 1200
 taacagaatt ttgtgcagta gggaccagga gccctagtaa ggatgggtgg ccctgggtggc 1260
 cagcaatgct cactattact gctcagagag agggggccag tcatgggaag aggcctagatt 1320
 tcggtgttca acaaaacttg gtaaaattct ggttgctgca tttctagat ttgtgttcta 1380
 ggcaagtcata tatcatctac atgagcagac atttctcat atttaaagt gaatttcaa 1440
 acctagaaga gttcatgcgg gaggcaatga gctgctggag cacaggcata acacaggtac 1500
 ctgccggggc ggccgctcga tttgctattg gagcacaacc tcttttggac catcaatata 1560
 cagtgc 1566

<210> 1019
 <211> 860
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(860)
 <223> n = A,T,C or G

<400> 1019
 nnnnnnnnnn ccgcatcctt tatattattt aagggtgttg gaaataattt ttatttaaca 60
 gatataaaaa aaattcttaa catttacaaa ttgtacaaag attggtagct tttatatttt 120
 tttaaaaatg ctatactaag agaaaaaaca aaagaccaca acaatattcc aaattatagg 180
 ttgagagaat gtgactatga agaaagtatt ctaaccaact aaaaaaata ttgaaaccac 240
 ttttgattga agcaaaatga ataagtctag atttaaaaac agtgtgaaat cacacttttg 300
 tctgtaaaaca tatttagctt tgcttttcat tcagatgtat acataaaact atttaaaatg 360
 tcatttaagt gaaccattcc aaggcataat aaaaaaagag gtagcaaatg aaaattaaag 420
 catttatttt ggtagtctt caataatgat gcgagaaact gaattccatc cagtagaagc 480
 atctcctttt gggtaatctg aacaagtgcc aaccagata gcaacatcca ctaatccagc 540
 accaattcct tcacaaagtc cttccacaga agaagtgcga tgaatattaa ttgttgaatt 600
 catttcaggg cttccttggg ccaaataaat tatagcttca atgggaagag gtcctgaaca 660
 ttcagctcca ttgaatgtga aataccaacg ctgacagcat gcatttctgc attttagccg 720
 aagtgaacca ctgaacaaaa ctcttagagc actatttgaa cgcatctttg taaatgtaca 780
 ctccgcaatt ttccaagat ctatgccata attcaatgaa ctccatgaca tgtttctttt 840
 cgagcaacag caaacagtat 860

<210> 1020

<211> 1814
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1814)
 <223> n = A,T,C or G

<400> 1020
 nagacagtgt ctttttgca aagagtctgt gttttcagcc tctgtataca attgagggca 60
 gtctagccct ttggatgaaa tcctcttagt tactgggtga tggcctgtgg gttacctgaa 120
 ctccataatc ggggactttt taaaaataag aaccagctca agtacatggg ttcatactgg 180
 ggtttctgtc tccctagtgt tcccatccag attagcatga gtgcttgggt gacttcaaac 240
 ctgtgtgtca atgcagaagg tctggagaca gcttcattct gtttatttat ttttaattgtt 300
 tgggtcatatg gttttgtgac tttattttt taattcacaa ggaccaggta cagtagctga 360
 aaccaattc agatccacca taggattctt tgactacata cctctgtcct agaagccgga 420
 aaaggagtaa aaacacatgg gggagatcat gcctaaaagt aatatattca aaaccaccca 480
 gcagtagggt tgtaacaac aaactggatt ttaaaagtgc tgccatggtt agtggccagc 540
 atttcatgaa ggataacatt tttatacaga aggcagtcaa gctcaactca gagccatgga 600
 ggcaagtacc ttaattagtt ttatatagtc acaacggaaa tatattttct agtgaattct 660
 tattggaagc caggtctctc ctctcattag atcaaaaggg acttatgtac atacaacaat 720
 tgaaagtgtt tgctcatgaa atcagttata aatatggtga attttttctg gaccatagga 780
 atattatttc aaagaaatat tacaacttaa ccattaaatt agtacttgaa gttgagcctt 840
 tgtggtggga ctttttaaaa aaatgccttt ttaaagcatt aatggctaatt tgaagtattt 900
 tatgactcct cattcctggc ccagagggtt gtctttgaaa ccctgtttct aaccttgtg 960
 ttgtgtgttt ctgtctgagg acagtgggtg tgtactggcc tcccgaggc cactgtgacc 1020
 aggcctttga gctcttgtca tctgtggaga gaatcatgca aatttttaaaa gttcttccaa 1080
 gagacttcca tgtcctgggt attaacaataa aaggaaaaat gtaataattg atatgatttt 1140
 gtaaaagtat ttttcttgaa ataactctaaa gtttaaaaca ttatatataa aaaaaagttg 1200
 tgtggtggga atgtgaaagc agagaaataa cttgtaaatg gataattttg ttctctgtac 1260
 caccagttga aggggggggt gactttcgca atgtatagga taaaaaatct gatataatca 1320
 accatttgta tctaattgtt acagtgtaaa attgacttta aaaatattgc agtgctattt 1380
 tttcttaatc agaaaggaaa attctcaagg ctttttgaag agcataagaa gatgaagatt 1440
 gtaaaactgt ataaaattat cttggtgaga agacaaattg taaagtagat atttgtaatc 1500
 ttttaccact ttggggttgc tttttcccg gaattcatca gaactttgaa tttttttttt 1560
 aaatgggctg tttttaatgc aggggctttt ctccctaga aacccaattc taagcacaaa 1620
 cccagaataa gaacctaca aatctttaa aatccacagg tacatacatg gttcgatcaa 1680
 gttagtcaga caagggcaca attacgttg cacacactag gtcagttcac atttgttctg 1740
 tgcagtgtat ccagagaaca tgggtcacgca taacgtggag gaatatatgt ccgcatggag 1800
 gaagatggnn nnnn 1814

<210> 1021
 <211> 4126
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(4126)
 <223> n = A,T,C or G

<400> 1021
 nncatatcta gaattttggg taggtacttt gaatcattac gatctatcta cttcttaggt 60
 gaggaatag aggttttaaaa tttagtccac agtctcgcaa ggatggagcc tggatcaaat 120
 tttgggttat cagattccaa tcacgtttct tagcttttct ttttttttcc caactccagt 180
 ttctgtcttg ctccaaaaaa ggggaaggag cggtgcggc gctcggtttc ccgcctccta 240
 ggggaaggaa gggagacgag caacgcggag gctggggccc ccttccgggc ggggcctact 300
 agtgggcggg gcctgtcagt gagcgccccc tgcccggaa gaggcagtc ggggcggagc 360
 cgatggcctt acaggggccc gaagtggcct gcgggcggag aagtgcctca ggagtcctga 420
 cgcagtgtct tgggcgctaa cggcggcggc ggccttgtgt ttagactcca gaactcccca 480

cttgccgcgt	tctcgccgcc	gcaggctccc	gggacgatgg	tgccccgcct	gctgctgcgc	540
gcttgcccc	ggggccccgc	ggttggtccg	ggagccccc	gtcggcccc	cagcgccggc	600
tccgggcccc	gccagttacc	gcagcgagc	atcggtcccc	ccatgcacta	ccaggacagc	660
ctgcccaggc	tgccatttcc	caaaacttgaa	gacaccatta	ggagatacct	cagtgacag	720
aagcctctct	tgaatgatgg	ccagttcagg	aaaacagaa	aattttgcaa	gagttttgaa	780
aatgggattg	gaaaagaact	gcatgagcag	ctggttgctc	tggacaaaca	gaataaacat	840
acaagctaca	tttcgggacc	ctggtttgat	atgtacctat	ctgctcgaga	ctccgttggt	900
ctgaacttta	atccatttat	ggctttcaat	cctgacccaa	aatctgagta	taatgaccag	960
ctcaccggg	caaccaacat	gactgtttct	gccatccggt	ttctgaagac	actccgggct	1020
ggccttcttg	agccagaagt	gttccacttg	aaccttgcaa	aaagtgcac	tatcaccttc	1080
aagagactca	tacgctttgt	gccttcctct	ctgtcctggt	atggggccta	cctggtcaat	1140
gcgtatcccc	tgcatatgtc	ccagtatttt	cggttttcca	actcaactcg	tttaccctaa	1200
cccagtcggg	atgaactctt	cactgatgac	aaggccagac	acctcctggt	cctaaggaaa	1260
ggaaattttt	atatctttga	tgtcctggat	caagatggga	acattgtgag	cccctcggaa	1320
atccaggcac	atctgaagta	cattctctca	gacagcagcc	ccgccccga	gtttcccttg	1380
gcatacctga	ccagtgcagaa	ccgagacatc	tgggcagagc	tcaggcagaa	gctgatgagt	1440
agtggcaatg	aggagagcct	gaggaaagt	gactcggcag	tggtctgtct	ctgcctagat	1500
gacttcccca	ttaaggacct	tgtccacttg	tcccacaata	tgctgcatgg	ggatggcaca	1560
aaccgctgg	ttgataaatc	ctttaacctc	attatcgcca	aggatggctc	tactgccatc	1620
cactttgagc	actcttgagg	tgatggtgtg	gcagtgctca	gatttttta	tgaagtattt	1680
aaagacagca	ctcagacccc	tgccgtcact	ccacagagcc	agccagctac	cactgactct	1740
actgtcacgg	tgacagaaact	caacttcgag	ctgactgatg	ccttaaagac	tggcatcaca	1800
gctgctaagg	aaaagtttga	tgccaccatg	aaaacctca	ctattgactg	cgtccagttt	1860
cagagaggag	gcaaagaatt	cctgaagaag	caaaagctga	gccctgacgc	agttgccag	1920
ctggcattcc	agatggcctt	cctgcggcag	tacgggcaga	cagtggccac	ctacgagtcc	1980
tgtagcactg	ccgcattcaa	gcacggccgc	actgagacca	tccgcccggc	ctccgtctat	2040
acaaagaggt	gctctgaggc	ctttgtcagg	gagccctcca	ggcacagtgc	tggtgagatt	2100
cagcagatga	tggttgagt	ctccaagtac	catggccagc	tgaccaaaga	agcagcaatg	2160
ggccagggct	tgaccgaca	cttgtttgct	ctgcggcatc	tggcagcagc	caaagggatc	2220
atcttgccctg	agctctacct	ggaccctgca	tacgggcaga	taaaccacaa	tgctctgtcc	2280
acgagcacac	tgagcagccc	agcagtgaac	cttgggggct	ttgcccctgt	ggtctctgat	2340
ggctttgggt	ttgggtatgc	tggtcatgac	aactggatag	gctgcaatgt	ctcttcctac	2400
ccaggccgca	atgcccggga	gtttctccaa	tggtggaga	aggccttaga	agacatgttt	2460
gatgccttag	aaggcaaatc	catcaaaaat	taacttctgg	gcagatgaaa	agctaccatt	2520
acttctcat	catgaaaact	gggaggccgg	gcattggtggc	tcattgcctgt	aatcccagca	2580
ttttgagagg	ctgaggccgg	tggtcactt	gaggtcagga	gtttgagacc	aacctggcca	2640
acatggtgaa	accttgctct	tactaaaaat	acaaaaatta	gctgggtgtg	gtggcatgtg	2700
cctataatcc	cagctacttg	ggagggtgaa	gcagaattgc	ttgaaccag	gaggtggagg	2760
ttgcagtgc	ctgagatcac	accactgcac	tccggcctgg	gcgacagagc	gagactgtct	2820
caaaaaaaca	aaaaaactgg	aaaaactggg	gctgtgttag	ccagtgggtg	ctattctgtg	2880
aaactaatca	taagctgcct	aggcagccag	ctacaggctt	gagctttaaa	ttcatggttt	2940
taaagctaaa	cgtaatttcc	acttgggact	agatcacaa	tgaagataac	aagagattta	3000
agttttaagg	gcattttaat	aggaggaaag	gtttggaaaa	ctaactcagg	tgtattttat	3060
gtttaagcag	aaataaagtt	taatttttgc	ttgaagatgg	ttcttaattt	cttttaacct	3120
aatttcctaat	cctcacaag	atctttccaa	cagcaagttc	agtaagttca	ggtaacagta	3180
cgtcaccatt	ggcttctggc	tcattgagt	atgggtggat	cgcggtttca	tctctgtaaa	3240
cttgcccttg	actggggaga	taccatctcc	ttaaaaatac	tcttcatttt	cctaaggagt	3300
gaactgctgc	tgacgaatt	cttatttggt	gaggagtag	ctgcctcctt	acttcacctt	3360
catgcaccag	tgacgcgtga	acaggggctt	tattgatggg	gcttgggaag	ctgtaataaa	3420
gtccagcatg	cagattgtga	aggtttcgta	tagccaccag	gagacaagg	tcaaaggaa	3480
gagcctctgt	gggctctgct	gcttagagta	ctttgtcctt	tctcagttct	taagggaac	3540
tgggaaggaa	gagggatcag	cacttcacaa	actggtgggt	gacctcatag	attcccacag	3600
actcctgggc	cttttcatca	tagtcagtcc	agtctttctc	ctgcagatta	atgtcactga	3660
aggctgtccc	tgactccaca	ccttcagcag	caaaccagc	ctgcggctgg	aatcaactg	3720
gttcaaggcc	ccggcactca	aactccacta	ttgtcttgaa	gttctcattg	tcttcagcat	3780
tgtaaggctt	gatggtgctg	cttaaaatct	cgatggaatt	ttctcttgca	cacagcttgc	3840
acttctggac	catggaagca	ctgccacggc	cccccttcag	tgccacactg	tccatcagcc	3900
ggatgtactg	ccacttgtcc	gaaatctcac	cacagttgcc	acatttcatc	ttcaggtacc	3960
accggaagtc	ctcgcccacg	ggccggaggt	tggtgatgtt	ctccagcgtg	gctttgagtt	4020
gcagcgcgat	tttccccatg	gtagccctct	ccgcccgggt	ctggctgcgg	cccttgccgt	4080
tgccggacgc	gatggcggcc	gtataggga	cagtcgggta	ccaagn		4126

<210> 1022
 <211> 3605
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(3605)
 <223> n = A,T,C or G

<400> 1022
 atttggccct cgaggccaag aattcggcac gttacgcctt ccctcatccc cggtagaggc 60
 agggcgggac tggttggtt gagatgaagg ctagttaatg gtgaagtact tcccggccag 120
 agggcacctg cgctcgggag gtttgggcgg cttggcgctcg gaggagagcc ccaccgcgg 180
 aggaaccag ccttgccaac ggagctggcg gagctactc ctcaggtcag gcgggcggcg 240
 tagaaaacgc agcggagcca ggtgaaacca aggcaccgcc gtggctggcc cccgacagtt 300
 cctctagccg ggagggttga ggagctgaaa acgcccggga gccctcggcc gcccgagcag 360
 gggctggacc ccagcccttg cagcctccct tctcctggca cccaagtga gtcttggtg 420
 cagaaggggc cgcgggcgca ctgagtttc aacctccgtt tcagcctgtc tgtctcagg 480
 tgcagcctta atgagaggtg attcctaagc tgctgggaac ctgaggttgt caaagggcg 540
 gcaggaaatg gacagcagta taaaaccag aagcagaact tgaaggtaa accactagcc 600
 catttcacag aatgtttcat ccatttggg accaaaagat ggagttggtt tttattttta 660
 aaaagataat gttaatgato tgataccact acaaatattt acgtgagaag attcatggac 720
 ttgtcttttg gttggactgt cactcatttc tgaaagtctc ttcagccaca atttctattt 780
 gaaaattcaa gtatcaaagg ataccaggtt tagaatggta taatgatgta ttttgtctga 840
 ggactgcaaa ttttatagag accacagttg gattccagt atattctgca atcaaatgaa 900
 tttgataaac ctaattttga agcattttat atttataagc gacatcaaaa gatgggagaa 960
 aaaaatggcg atgcaaaaaa tttctggatg gagctagaag atgatggaag agtggacttc 1020
 atttttgaac aagtacaaaa tgtgctgcag tctactgaaac aaaagatcaa agatgggtct 1080
 gccaccaata aagaatacat ccaagcaatg attctagtga atgaagcaac tataattaac 1140
 agttcaacat caataaagga tcctatgcct gtgactcaga aggaacagga aaacaaatcc 1200
 aatgcatttc cctctacatc atgtgaaaac tcctttccag aagactgtac atttctaaca 1260
 acaggaataa aggaatttct ctctcttgaa gataaagttg tagactttag agaaaaagac 1320
 tcatcttcga atttatctta ccaaaagtcag gactgctctg gtgcttgtct gatgaaaatg 1380
 ccactgaact tgaagggaga aaacctctg cagctgccaa tcaaagtca cttccaaaga 1440
 cgacatgcaa agacaaactc tcattcttca gcactccag tgagttataa aacctctgt 1500
 ggaaggagtc tacgaaacgt ggaggaagtt tttcgttacc tgcttgagac agagtgtaac 1560
 tttttattta cagataactt ttctttcaat acctatgttc agttggctcg gaattacca 1620
 aagcaaaaag aagttgtttc tgatgtggat attagcaatg gagtggaaac agtgccatt 1680
 tctttctgta atgaaattga cagtagaaag ctcccacagt ttaagtacag aaagactgtg 1740
 tggcctcgag catataatct aaccaacttt tccagcagtt ttactgattc ctgtgactgc 1800
 tctgagggct gcatagacat aacaaaatgt gcatgtcttc aactgacagc aaggaatgcc 1860
 aaaacttccc ccttgtcaag tgacaaaata accactggat ataaatataa aagactacag 1920
 agacagattc ctactggcat ttatgaatgc agccttttgt gcaaatgtaa tcgacaattg 1980
 tgtcaaaacc gagttgtcca acatggtcct caagttaggt tacaggtgtt caaaactgag 2040
 cagaagggat ggggtgtacg ctgtctagat gacattgaca gaggacatt tgtttgcatt 2100
 tattcaggaa gattactaag cagagctaac actgaaaaat cttatggtat tgatgaaaac 2160
 gggagagatg agaatactat gaaaaatata ttttcaaaaa agaggaaatt agaagttgca 2220
 tgttcagatt gtgaagttga agttctccca ttaggattgg aaacacatcc tagaactgct 2280
 aaaactgaga aatgtccacc aaagttcagt aataatccca aggagcttac tatggaaacg 2340
 aaatatgata atatttcaag aattcaatat cattcagtta ttagagatcc tgaatccaag 2400
 acagccattt ttcaacacaa tgggaaaaaa atggaatttg tttcctcgga gtctgtcact 2460
 ccagaagata atgatggatt taaaccaccc cgagagcatc tgaactctaa aaccaaggga 2520
 gcacaaaagg actcaagttc aaaccatggt gatgagtttg aagataatct gctgatgaa 2580
 tcagatgtga tagatataac taaatataga gaagaaactc caccaaggag cagatgtaac 2640
 caggcgacca cattggataa tcagaatatt aaaaaggcaa ttgaggttca aattcagaaa 2700
 ccccaagagg gacgatctac agcatgtcaa agacagcagg tattttgtga tgaagagttg 2760
 ctaagtgaag ccaagaatac ttcatctgat tctctaaca agttcaataa agggaatgtg 2820
 tttttatttg atgccacaaa agaaggaaat gtcggccgct tccttaatca tagttgttgc 2880
 ccaaatctct tggtacagaa tgtttttgta gaaacacaca acaggaattt tccattggtg 2940

```

gcattcttca ccaacaggta tgtgaaagca agaacagagc taacatggga ttatggctat 3000
gaagctggga ctgtgcctga gaaggaaatc ttctgccaat gtgggggttaa taaatgtaga 3060
aaaaaaatat tataaatatg taactaacgc ctgtttgtga aattagctta tcaggctgaa 3120
attaaagcca tgcaaaagaa ggtctaggtc catcaaggaa attcccctcc gttttccttt 3180
gtcatggggt ttatgtttta tttcagattt tatttgtgtg acttagaaat tccaggaaca 3240
caattaggat atttcatac acatagggtg tcttgttcac tgctgtgcta ctttacctga 3300
gtaggatgga agtgtatatt ttatatgaaa taccactgta caatttataa tttatttaca 3360
aattatatat taagagaaac aaatgtcata acagaactca gctgtttcta attgcttttg 3420
tgactgttac cttttagttc atgccccccc aaagagctaa atttcacatt tttacctaca 3480
aaattgattt ttaattcctg gcanataatt taccattatg agctacaagg tgggcaacag 3540
cgctgagga tctaatttta tgcatattac tcccaagtat tttaacactt gttggagaan 3600
nnnnn 3605

```

<210> 1023

<211> 2514

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2514)

<223> n = A,T,C or G

<400> 1023

```

nnnnnnccgg acgcttcagg tggaagggag ctgccgcggg gcttgctggg atcatggcgg 60
agaatcactg cgagctcctg tcgccggccc ggggcggcat cggggcgggg ctggggggcg 120
gcctgtgccg ccgctgcagc gctgggctcg gcgccttgge ccagcgcctt ggcagcgtgt 180
ccaagtgggt ccgactcaac gtccggcgga cctacttcct caccactcgg cagacctgt 240
gccgggaccc gaaatccttc ctgtaccgct tatgccaggc cgatcccgac ctggactcag 300
acaaggatga aacaggcgcc tatttaatcg acagagaccc cacctacttt gggcctgtgc 360
tgaactacct gagacacggc aagctggtga ttaacaaaga cctcgcgagg gaaggagtgt 420
tgagggaagc agaattttac aatatcacct cattaataaa acttgtaaag gacaaaatta 480
gagaacgaga cagcaaaaca tcgcagggtc ctgtgaagca tgtgtaccgt gtgctgcagt 540
gccaggagga ggagctcacg cagatggtgt ccaccatgtc cgacggctgg aagttcgagc 600
agttggtcag catcggtccc tcttacaact atgggaacga agaccaagcc gattcctct 660
gtgtggtgtc caaggagctg cacaacaccc cgtacggtac ggccagcgag ccagcgaga 720
aggccaagat ttgcaagaa cgaggctcaa ggatgtgagg gacacagtat tgacagctga 780
agaaatgatt tacgttttcc cgagatgtaa tgaactgcca tgtccaggaa gcttggctgt 840
gagaagaaac ctgcttttga tcatttttct agagatctgg gtgtgaatcc tttttgcct 900
ctgaggtggg tggtagaga cgggcccgac tgtccaaggc cagacgtccc caagttgggg 960
gagcacggcg gccgggtggg cgtgcctct tcggggggcc tcgctctgtt tttccaagt 1020
gccacgtggg actgaggcag acactcccag tcagcccgtc cgatcctgaa gatcgtgtga 1080
aggaagcgtt cttggtgcta cacacagctt ggaaaagcag cctgggcttc actggcagga 1140
agcgccgca gccgcgtcag tgtccagcac gtctggcct ctggtccgac caccaggccc 1200
tagtctcggg cagggagctc gctctgcctc ccaggcggga tcgctgggtt ctctcgacct 1260
cgagagctc ctgacaaagg cggcttctgc gtctcactg cttccggcg ccattccgag 1320
gccgggcctt cttctgacac gggctccaac ccacactgac caagcccggg acagtcaagg 1380
cttctcaatt tgtattttcc aggcaagaga actttgtacc ccttctctgt gtggatagac 1440
tccccagcgt ttttctctg gaaatgccc cagggcttgc cgcgtggaga ctgatctgtt 1500
ccatccgtta gcgcgaggta gcagtgtcgc ctgcacctc ccactgcggg ctccaggga 1560
gctggcgtct gtcagtgcct tgtcacgcct ggcatagagg ttgggctgga ggctgtcca 1620
ctggcttctg gagctgaagg tctgcgtcac ggtgaaaatt cgggatgttt acagagcatc 1680
acaaatgcct ctctctcgcc gctctctcat tttctttgta taactatgca gcctccctc 1740
tcttctggg atgtttggga ctccactcga cctgcacggg ctctgcccga catgcctgg 1800
gagctgctgg gattccttta gaaaccgctg ccgcgatgct ttgaaaacag acctttctca 1860
gctggctgtg gggacctgtc agagtctggg gactcggcgt gcaggcggg ctccaagcgc 1920
tttgcttcgg gaactccggc ttcccaaggg gtactgtgca gactgaccac cggcctccc 1980
cctgcagtc agaggctctg acactgtctg gtttccaatg cttctggaga cttcctgcct 2040
aggcctcatc ctctctttg ccagtcacct gattaaccaa ttctccagca ttaggactta 2100
cctccttctt ttgtgaaggc ctctgtatg ttgttaaatg tttggcttaa acaatttata 2160
aaagcctttc tagaaggcag acttagcccc agcagagcct gggaggaagg cggccgctgg 2220

```

```

ggctcctggg catcctctct ggggagctgc tggccgctta gcgttgtttg atttttgacc 2280
ttgacatagt agataggctt gtgggttttt taatttaaag atattaagac ttaattcact 2340
aaaattttatt ctaaggggat atttatactt ttatactttt ttaggtatcg tattttatca 2400
gcttacagtt taatgcctaa gtttcccctg gaaatagcaa ataaaattgt gtatttatgc 2460
aaaaaaaaaa aaaacaaagg ccgctctaga tctagtggat actgcgannn nnnn 2514

```

```

<210> 1024
<211> 1797
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(1797)
<223> n = A,T,C or G

```

```

<400> 1024
ncgccgagcg tttcccggga ccccaggtgt gttggcccca aacgcggtcc caactcttgg 60
cgcccccccc cccaggagtt tggggtctta acaagagtc cttgccgtga tgggggttggc 120
caaccatggt ttatttgtac cgtccaaagt gccacccatg aagtgtccc ccaattcaca 180
agccgactta cttccagacc agtcacctg cttctgcggg cccagtgcc acggtactgt 240
cctgagtggt ttggaagggt ggtagccgct gatacaggga caggcagatg tgcagacact 300
taccaccctg gtccaccgat cccaccccat gcttccacct cccagagetc ttgagataag 360
accttaagaa ggatccttgg gcttgcatta aaaccacttt gctgtccgtg gaggtctaac 420
aggaccaaat agttgttact acaaaagtgc ttttgcaaag agggcaagtt agaagaagga 480
ggtaatatga atattcttta gaaaaactca aatccatcgg cttatcaata cccaaagtct 540
gaggctaccc agggcacaat ttggtccatg gaatgctgag tggaggaggc agctggtgtg 600
aggctgcgcc tgactcccag gagcatttag ccatcctttt tggcttgggg agtgtcaaa 660
agccggactg ccttcctgca cagcagacag aaccagtaga tctgaggagc tacgaggaag 720
gcattggcca cgttgcagta gaatgggatg ctgaagggtta cttggagcag gcttagtccc 780
tgctggcggc cataggacca gtacatgaag ggaagagaa ggatccggca ggaaaggaag 840
gtggccagcg tgaggattcc attcaccttg tacagaaggg tgtgctgctg ctttagctga 900
atcagaaccc tgcccagcga cacaacagg gtgtcagtt ctgccgtgaa gatgcagccg 960
acaaagaagt ccccaagggt tccccggagc ctctgtgcga ctggcacaag gacaaagaga 1020
atgaccgcat gatgtgtgat catgaggcgg tttcgactta ggaagtttcg aagagttagg 1080
gagggcgcac ggttctggtc tctggttcgg caccattcac agaggtagat ggcgtacgag 1140
tcatagatca tgtatggaat cagaaaccac acatattccc gggcaagcca gtgcctgccg 1200
gtgatcacgt cgtcgcagga gcgaatgatg acgatccccg agccggtggc cagcacggcg 1260
tgcaccgagg aaaccagcct agcgcgggcg gagaggagaa cagcgcgcgc gctcagtc 1320
gtccgaggac cgcagggagc ccggcccggc ccggcccttc ggcctgactc tccccagccg 1380
caggcagatg tggggagcgg gctccggagg ctcaatcggc catttcccgc ccgcccggcg 1440
ccccgctccc gccaggggag gacgcggagg ggcttcggaa actcggggcc ccgggacgcg 1500
gagggagcag cccccggct tcctgccgcc ccccttttcc gccctggggc ccgcccggcg 1560
gtggggtgcg gtgggcagcg ccccgggcct cggggggcgt ctcgggcgcg ccggttctctg 1620
gtgctgatca tcacgcagtc ggtgcggctc catccgggct gggagcggcg cagcggccag 1680
gtgcagagcg cgaagagccc cggcaagaag tgccgcgccc cggccagcgt cagcagcatc 1740
ggggctgcgg gtccggccgc ctctctgaca ccgtgtggct gggttcggct cggcgcg 1797

```

```

<210> 1025
<211> 2345
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(2345)
<223> n = A,T,C or G

```

```

<400> 1025
nnnnnctga gtgactggga tctcactact ttcttttatt aataatttct aattttatta 60
tggtatagtc cagggaaaata gcctattctg tgctactttg tgaaatgtat cacaggctgt 120

```

```

caattctttt ttctttttgt tgaggcaata tataagatcc attattgtaa ctaattcatg 180
gatacttggt gtcttcttag tttattagtg ttcatatcca gtatgtactt acttattttc 240
aattttctct ttttaattta ttttcagggc aaattttatc ggatcaactt tgatgtaact 300
ggctatatcg ttggggccaa cattgaaaca taccttctgg aaaagtctcg tgctgttcgt 360
caagccaaag atgaacgtac ttttcatatc ttttaccagt tgttatctgg agcaggagaa 420
cacctaaagt ctgatttgct tcttgaagga ttaataaact acaggtttct ctccaatggc 480
tatattccta ttccgggaca gcaagacaaa gataatttcc aggagaccat ggaagcaatg 540
cacataatgg gcttctccca tgaagagatt ctgtcaatgc ttaaagtagt atcttcagtg 600
ctacagtttg gaaatatttc tttcaaaaag gagagaaata ctgatcaagc ttccatgcca 660
gaaaatacag ttgcgagaa gctctgccat cttcttgga tgaatgtgat ggagtttact 720
cgggccatcc tgactccccg gatcaagggtc ggccgagact atgtgcaaaa agcccagacc 780
aaagaacagg cagattttgc agtagaagca ttggcaaaag ctacctatga gcggctcttt 840
cgctggctcg ttcatcgcat caataaagct ctggatagga ccaaacgtca gggagcatct 900
ttcattggaa tcttgatgat tgctggattt gaaatttttg agctgaactc ctttgaacaa 960
ctttgcatca actacaccaa tgagaagctg cagcagctgt tcaaccacac catgtttatc 1020
ctagaacaag aggaatacca gcggaaggc atcgagtggg acttcatcga tttcgggctg 1080
gatctgcagc catgcatcga cctaataagag agacctgcga accctcctgg tgtaccggcc 1140
cttttggtatg aagaatgctg gttccctaaa gccacagata aaacctttgt tgaaaaactg 1200
gttcaagagc aaggttccca ctccaagttt cagaaacctc gacaattaaa agacaaagct 1260
gatttttgca ttatacatla tgagggaag gtggactata aggcagatga gtggctgatg 1320
aagaatatgg accccctgaa tgacaacgtg gccacccttt ataccgctac gtacgagacc 1380
ccgctggcag atctttggaa agatgtggac cgtatcgtgg gtctggatca agtactgggt 1440
atgactgaga cagcttttgg ctccgcataa aaaaccaaga agggcatgtt tcgtaccgtt 1500
gggcaactct acaagaatc tctcaccaag ctgatggcaa ctctccgaaa caccaaccct 1560
aactttgttc gttgtatcat tccaaatcac gagaagaggg ctggaaaatt ggatccacac 1620
ctagtccatg atcagcttcg ctgtaatggt gtcctggaag ggatccgaat ctgtcgccag 1680
ggcttcccta accgaatagt tttccaggaa ttcagacaga gatatgagat cctaactcca 1740
aatgctattc ctaaaggttt tatggatggt aaacaggcct gtgaacgaat gatccgggct 1800
ttagaattgg acccaactt gtacagaatt ggacagagca agatattttt cagagctgga 1860
gttctggcac acttagagga agaaagagat ttaaaaatca ccgatatcat tatcttcttc 1920
caggccgttt gcagaggtta cctggccaga aaggcctttg ccaagaagca gcagcaacta 1980
agtgccttaa aggtcttgca gcggaactgt gccgcgtacc tgaattacg gcactggcag 2040
tggtggcgag tcttcacaaa ggtgaagccg cttctacaag tgactcgcca ggaggaagaa 2100
cttcaggcca aagatgaaga gctgttgaag gtgacggaaa gcagacaccg gtggcaagga 2160
gacctggacg acattgagcg gaagcacca cgagccttca cgagcacac agacatatcc 2220
ttgcacgaag ccactaccag acaaaaacgg aaccctgga tgaacccaaa gacgatcaca 2280
ggcacgcctc gcccgctaac acaccacacc taacaacaat cccacatgac cgcaccctcg 2340
agnnn 2345

```

<210> 1026

<211> 2841

<212> DNA

<213> Homo sapiens

<400> 1026

```

cagataacag gataccgact gaccgtgggc cttacccgaa gaggccagcc caggcagtac 60
aatgtgggtc cctctgtctc caagtacccc ctgaggaatc tgcagcctgc atctgagtac 120
accgtatccc tcgtggccat aaagggcaac caagagagcc ccaaagccac tggagtcttt 180
accacactgc agcctgggag ctctattcca ccttacaaca ccgaggtgac tgagtcccgg 240
cctggagtag aatgtcagtg tttacactgt caaggatgac aaggaaagtg tccctatctc 300
tgataccatc atcccagctg ttcctcctcc cactgacctg cgattcacca acattgggtc 360
agacaccatg cgtgtcacct gggctccacc cccatccatt gatttaacca acttcctgg 420
gcgttactca cctgtgaaaa atgaggaaga tgttgagag ttgtcaattt ctcttcaga 480
caatgcagtg gtcttaacaa atctcctgcc tggtagagaa tatgtagtga gtgtctccag 540
tgtctacgaa caacatgaga gcacacctct tagaggaaga cagaaaacag gtcttgattc 600
cccaactggc attgactttt ctgatattac tgccaactct tttactgtgc actggattgc 660
tctcgagcc accactactg gctacaggat ccgcatcat cccgagcact tcagtgggag 720
acctcgagaa gatcgggtgc cccactctcg gaattccatc accctacca acctcactcc 780
aggcacagag tatgtggtca gcacgttgc tcttaatggc agagaggaaa gtcccttatt 840
gattggccaa caatcaacag tttctgatgt tccgagggac ctggaagttg ttgctgcgac 900
ccccaccagc ctactgatca gctgggatgc tctgtctgct acagtgagat attacaggat 960

```

```

cacttacgga gaaacaggag gaaatagccc tgtccaggag ttcactgtgc ctgggagcaa 1020
gtctacagct accatcagcg gccttaaacc tggagttgat tataccatca ctgtgtatgc 1080
tgtcactggc cgtggagaca gccccgaag cagcaagcca atttccatta attaccgaac 1140
agaaattgac aaaccatccc agatgcaagt gaccgatgtt caggacaaca gcattagtgt 1200
caagtggctg ccttcaagtt cccctgttac tggttacaga gtaaccacca ctcccaaaaa 1260
tggaccagga ccaacaaaaa ctaaaactgc aggtccagat caaacagaaa tgactattga 1320
aggcttgacg cccacagtgg agtatgtggt tagtgtctat gctcagaatc caagcggaga 1380
gagtcagcct ctggttcaga ctgcagtaac caacattgat cgccctaag gactggcatt 1440
cactgatgtg gatgtcgatt ccatcaaaat tgcttgggaa agcccacagg ggcaagtttc 1500
caggtacagg gtgacctact cgagccctga gtagggaatc catgagctat tccctgacc 1560
tgatgggtgaa gaagacactg cagagctgca aggcctcaga ccgggttctg agtacacagt 1620
cagtgtggtt gccttgacag atgatatgga gagccagccc ctgattggaa cccagtccac 1680
agctattcct gcaccaactg acctgaagtt cactcaggtc acaccacaa gcctgagcgc 1740
ccagtggaca ccaaccaatg ttcagctcac tggatatcga gtgcgggtgt gacctgagt 1800
aacttcaggt cagttggtgc aggaatagt gttactgcag tctgaaccag aggctgactc 1860
tctccgcttg gattctgagc atagacacta accacatact ccactgtggg ctgcaagcct 1920
tcaatagtca tttctgtttg atctggacct gcagttttag tttttgttg tccctgtcca 1980
tttttgggag tgggtggttac tctgtaacca gtaacagggg aacttgaagg cagccacttg 2040
acactaatgc tgttgtcctg aacatcggtc acttgcattc gggatggttt gtcaatttct 2100
gttcggtaat taatggaaat tggcttgctg cttgcggggc tgtctccacg gccagtga 2160
gcatacacag tgatggtata atcaactcca ggtttaaggc cgctgatggt agctgtagac 2220
ttgctcccag gcacagtaaa ctctgaaca gggcaatttc ctctgtttc tccgtaagt 2280
atcctgtaat atctcactgt gacagcagga gcaccccagc tgatcagtag gctgggtggg 2340
gtgcagcaa caacttccag gtccctcgga acatcagaaa ctggtgattg ttggccaatc 2400
aataagggac tttcctctct gccattaaga gcaacgatgc tgaccacata ctctgtgcct 2460
ggagtggagt tggtgagggt gatggaattc cgagagtggg gcacccgatc ttctcgaggt 2520
ctcccaactg agtgctcggg atgatggtgg atcctgtagc cagtgatggt ggctcgagga 2580
gcaatccagt gcacagtaaa agagtggca gtaatatcag aaaagtcaat gccagttggg 2640
gaatcaagac ctgttttctg tcttctcta agaggtgtgc tctcatgttg ttcgtagaca 2700
ctggagacac tcactacata ttctgtacca ggcaggagat ttgttaagca cctctgcatt 2760
gtctgaagga gaaattgaca actctgcaac atcttctca cttttcacag gtgagtaacg 2820
caccaggaag cggacgcgtg g

```

<210> 1027

<211> 1091

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1091)

<223> n = A,T,C or G

<400> 1027

```

nnnnnnngctg caggcaggcc tcccaacga agccggttgc catgctaaac ctgtgtttta 60
tacctccggg cattcaaacc agaagtagga aggggcttcc accagccgtt tcttctgggt 120
tccgcctgtc gccttttctg agagcggata aagcgttccct ttccagaagc caatttctctg 180
tttgcacctc agctcgctca acctagtgtc tatcttgtac cgccccccc tttgctgtgt 240
gcttgtggtt gttctgtctt aaacaagtga acagttttat taagaattaa atgaggggat 300
ggaatgtgat acagtacaag taagacactg aagatgggta taatagtact acttgcaaa 360
aaagttaaat ttcacttcaa aaaaaaaaa cacaagacaa aagaaaaagc aattccatca 420
ttataaagta agctatttca tgcaacgtac taatactccc cctcccccca aaacccaac 480
ttcccaacaa acaaaaagct atctgaaaat gctgccatgc taacatatga accacgggat 540
attcattcat ggaaaaacac actcattaag caatggatta gataaaataa cacagtttgc 600
agtattgtaa actcatagac cacaatgatt tcacatgaaa agcaattcca gattcactca 660
tagggtagt ataatgggct acatagttag gagataatgt aaatataaac ccattaat 720
ctctcattat cttctaatta taaaacctgg aagcttagat aatctgaaaa attcatataa 780
aatttggcat actccacttg tgttccaaga aatgactttc ggatatttgt aattattaga 840
gagctgtata aaaagcactt caagatcagg atttgacttc ttaaataatg atcataattt 900
acatcacaga aacaactcca gaaatgcatt tactctgatt aactcttact caggacaagg 960
aacatgattt tctagcactt tatgtacaag ttactgcaaa gggccagtta atttacagac 1020

```

tgaataaaac gtaaaataaa ggtgaactgg tacagacagt gatggggaat ggtccctcat 1080
taagtcggac g 1091

<210> 1028
<211> 1731
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1731)
<223> n = A,T,C or G

<400> 1028
acattgtgat ggctgttact aaactaatcg tgtatttatg gaactagcaa aattaggtta 60
gtcacacagg caggaaaggt gtctggaagg acaggagcaa cctgtaatgc gaatatgggt 120
tttcttggtta tactcaggct ctgtgggtcat attgagaaca acggatccgg gcaggtaacgc 180
ggggaccact tctctgggac acattgcctt ctgtttttctc cagcatgcgc ttgctccagc 240
tctgtttcag ggccagccct gccaccctgc tcctggttct ctgcctgcag ttgggggcca 300
acaaagctca ggacaacact cggaagatca taataaagaa ttttgacatt cccaagtacg 360
tacgtccaaa tgacgaagtc actgcagtcg ttgcagttca aacagaattg aaagaatgca 420
tggtggttaa aacttacctc attagcagca tccctctaca aggtgcattt aactataagt 480
atactgcctg cctatgtgac gacaatccaa aaaccttcta ctgggacttt tacaccaaca 540
gaactgtgca aattgcagcc gtcgttgatg ttattcgga attaggcatc tgccctgatg 600
atgctgctgt aatccccatc aaaaacaacc ggttttatac tattgaaatc ctaaaggtag 660
aataatggaa gccctgtctg tttgccacac ccagggtgatt tcctctaaag aaacttggt 720
ggaattttctg ctgtgtgtcta taaaataaac ttcttaacat gcttcaaaaa aaaaaaaaaa 780
aaaaaaaaaa caaaataatt tgtggggggc tggccaaaaa ggtttacacc tgtgggcgcg 840
gcccaagtat acacggccca gtccaggact cgggcgacag gggggtcgcc aaaaaacgcg 900
ggagcagggt aacacaggca gggctgggtt aagccgcaac tctcccgcc cgcttatcca 960
gtcagaacac aaccacagc taacgcacag cacatcagcc agcatgcaca ccacgacatc 1020
agacacacca accacatgtc gatacgacct catccacgta gcaactacac gcgacactcc 1080
ccagacacga ccattcaacgc agatccgcag ggacagtgca cgcacgtctg cgtcaatctg 1140
ctggcacagg cgcgtcccagg caccaatgcg tcgagccacg gacacagaaa cgtttggacg 1200
aggcctgacg agcgagaact cgaaggcgag cagcaactga acctcgcccg acgcccagct 1260
cgcgccctg gcgacggagg agacgagcat ccagcaaagc gcaggccacg accacgcgca 1320
tgatcggagc ctgcgacgtc gggccgcgcg ccagctcaga cgggcgctcc caactaatac 1380
ctggagacag tgcgaccgac acgggacgag agaccgcgtc ggcgactgga cgcagagtca 1440
cgagtcaagt gtagaggctc atcctcggaa gaaggcctcc atcggtgaga agaacacgcg 1500
ccaggcgagg cggagcgtaga ggtacacgag tcttagtcgc aagtcgcgca ttcggcgacg 1560
cggtggagag caaaggaggt ggcaaccaat gcacacacaa ggacataaag gtactaagcc 1620
tagtggagag gagataggag aagcacagaa ctaagctccg gtcagggtgac gcgaatagac 1680
atcagcagca gcaagcgagc ggaagcgtag cgacagcggc gcggcgannn n 1731

<210> 1029
<211> 1455
<212> DNA
<213> Homo sapiens

<400> 1029
cggagtcgac ccacgcgtcc gccacgcgtc cgcaaggctt tttcaaatgt ggctaaatgg 60
ggatgaggag acacgggtag gactttcttg gtgtgtgtgc attctttaaa gagccaagtt 120
gcttcgggga aacagccagg aaaatggtca agattatatt tagaggttat tttattgggg 180
attttaagaa ctaataacat cttgagttat ttttaattca ggggatgtg gaaaggtttg 240
caattgtcaa gtgttttggg gtagcttagt atccataagg gaaacttaga ctatagacat 300
aactacaaag ccagtgcagc ttttgttttc tgtatgttgt tgggggatca actttcacac 360
atagcaagca catggcctcc ctgatgtcag gatgcctttg ttaggatctg tatttgcct 420
taattttgtt gaaatctttt ttctttcttc ctcttgaaaa gttccaaaat atagtttatt 480
gtatctttca tcaactaaaa tttgttcctt ttccactatg ggcagttcac acaaggcaaa 540
aactattgaa cagttggttt tagtgtgttg tataactttg ctgtatatca aactaatatt 600
gacaagtttt catcctaagc ctcaaatcat gtaattaata atttgctgtt ttatttatga 660


```

cctaattgtg attcttttat taataaaagc taatgggaaa aggatccctg attaagctga 720
tgactagacc tacaattaat ttctctgcag tatatgaagt attgtaccag agtattaaaa 780
gatatgtaat attttattga taaatctatc ctttaaaagg aatacgtttt aggatgtcat 840
cattttgatg tgaatcatgt aaatgttgat aatatgctgt ttattataca tttagtgttt 900
caagagattc acttaattgc ctttttgccc acgtatatta tgtagtctat ttgcaactgt 960
tcttaaaaaa atgacattaa aagaatagtt tatgtagaga aacattagtg gatgttaatt 1020
gtctcccac ctatatttat ggggtgttagc gcaactgctt tgctagtgtc aaagctgtat 1080
tatcagagta aaagtgtatt tgtaaactga ttgccccaaa gtctttttca gacctccct 1140
ccatacccaa aatacagaca cacaggcaag aactctcata aattcaaatt catcatttga 1200
gaggttgaag cctccaagga ttctcttagc tccagggtac atccactgta tgcttccaga 1260
tgtttttcca gatttcaatg tagtgtggct cttctttttc tttcagggct ggggggccat 1320
cttctgcagg gcagctgggg ccctgtgtgg gtaggctggg aggtgcctga ggcctgggct 1380
ctcccaccag ctctgtctgc acattctcca gcatggtctg acgctgtctg gccgccactg 1440
tcagctcaac catca 1455

```

<210> 1030

<211> 2157

<212> DNA

<213> Homo sapiens

<400> 1030

```

ttttttttt tttttttcat tttaaaaatc atttttattgt catttcatgg ttaaaaaaac 60
atacatgaca tgactataaa gtaatgagac gagttctcag gtgtgggttg gattactgag 120
tctcattaat atatagtcac aatcctgact tgagcttgga agaaaaatat gccttcgcta 180
tatgattatc aattttgtta cttaaaattt attgagtgcc aacagagcac taggcacata 240
tataacacag aattatacag tctctatgtt gtagactata ttatttacct agatttctca 300
aagataacat taaagcatgt atttacagaa ctttagacaa aaataacaat actgtaaatc 360
agcaagtttc tgtctagcaa ggagcacctt ttcattgaatg agagggtttt gcagaactta 420
ttgtgcaaaa gcactttaat tccattacac agcaagtcca tattattata tagttctata 480
aagctataag aagaaaaacc taagtgggaa gccatgatca gtttcattag gtcaaacgca 540
tttaggaaat tctctgctga gactgaagct taaaaggcta cagtcattat tacatattat 600
agcagaaaag ctagaactac agcatgcaat tcaatgaggt ggaagaatgg tgaatatgaa 660
aaccattttt ctaaacctgc agtttgttct cttttctatt aatttaatta ccactgcagt 720
ttctgatttt gagaagacat tatctttcaa ataaacgttg ttgcacaaat ttacttttta 780
aaagagattt ttggataagt acggtgaata gaaaattccc catatgatgt caactaccag 840
gtgcttgtaa gtttgaggc tctgaaggcc atcctaggga taccacatg atttcagcgg 900
tgtctgttgg gcagtgccag tcttggaagg tgggccaagc ataaattcca caaccttata 960
actaatatta gatgaagttt ctcaaacatt cctttgagac atggcaggac agcgccaggg 1020
atcctccttc aggaagaaac tagattttac attggtacta attcaatcaa aatattttaa 1080
acatttttaa tatggaaact gaggcttttt caacttaaga atctgcctcc aaattcaagc 1140
tgaagatttg gatacactgt gattctgaat aaacagtcaa gaaacacaac atcaaacat 1200
aaaagctttt agccaaatgt acagtatcca gtaaaaaaag gcatattgag ctttaactgc 1260
atcaatcatt tgcgtttctc tacatttgct ctgcattata acaagatgaa aaataaatac 1320
ttggttaatc tgcttatttc atgcaaattt gtcatgtaaa ggacctctct tatttgttct 1380
ctattttaata tgttatcaat caacatataa tcaaataagg aggtgaccgt tataccttgc 1440
cttcagctga atttagaatt ctctctatat ttttaagatg tcttaagcat actcagaaat 1500
gaaggactca agaaaatgtt cagtctttta tttaaaaact ataaacagtc accaaagtaa 1560
ataaagccat tctataacat aaactgttag gtctatattt ttactgcac atcctaagga 1620
cacagcagaa atgggtggtg ggaggccttc cacatttttg gatgctaata gaacaggcaa 1680
taggcagtta taaatggata catttcacgc tgggggaaaa aagacaattt aagggaagtga 1740
gcagtttctg agcaggaatg tgggtacagta ttaagaatgg aagaataata caataaaatt 1800
ccacactata ttaagataga aaaagtagtg aagaaaatat catacctgca cataatgcat 1860
atataacaca ggagaaaacc tgtataaaat tccatgtatt taaaccaatt tacaataaca 1920
aaaaattctg tccaagctct gagcttgtag acgacaaacg ttacagtggt atacatgtta 1980
aggaaaacca aaaaatacct tcaaatagtt tttcttctaa aaaaatgacat gagatatatt 2040
attccatact ctttcagccc agcaaaatga gttctacaag gacgggtgca gcaagccagg 2100
aagcaaaaaa agggatgggt ctatgaaaca tcagttgtag atcctgatga gggatcc 2157

```

<210> 1031

<211> 2190

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2190)

<223> n = A,T,C or G

<400> 1031

```

nnnccgagac ggagaacagg ttatgtggga gccggcgggg gcatttgccg gcgacacccg 60
agcggggggcc ggaagtgggg ccacagctcg cagcaggagc tccgggctag accgtggcgc 120
cggcagcggc ccctgggctg gaggaggatg atgaggagcg acggaagcga cgcgggggta 180
cgctgctgcg cggcgcccg tttcgtgccc gcggccgact gcgcagcctg tccgcgagtc 240
tgagatactt acagagagct acaatggaaa agtcctggat gctgtggaac tttgttgaaa 300
gatggctaatt agccttggct tcatgttctt gggctctctg ccgtatttct cttttacctt 360
taatagtgc ttttcatctg tatggaggca ttatcttact tttgttaata ttcatatcaa 420
tagcaggat tctgtataaa ttccaggatg tattgcttta ttttccagaa cagccatcct 480
cttcacgtct ttatgttccc atgccactg gcattccaca tgaaaacatt ttcatacaga 540
ccaaagatgg aatcagctcg aatcttattt tgatacgata cactggagac aattcacccct 600
attccccaac tataatttat tttcatggga atgcaggcaa cataggtcac aggttgccaa 660
atgcattact tatgttgggt aacctcaaag ttaacctttt gctggttgat tatcgaggat 720
atggaaaaag tgaaggagaa gcaagtgaag aaggactcta cttagattct gaagctgtgt 780
tagactacgt gatgactaga cctgaccttg ataaaaacaaa aatttttctt tttggccgtt 840
ccttgggtgg agcagtggct attcatttgg cttctgaaaa ttcacatagg atttcagcca 900
ttatggtgga gaacacattt ttaagcatat cacatatggc cagcacttta ttttcattct 960
ttccgatgcg ttaccttcct ttatggtgct acaaaaaataa atttttgtcc tacagaaaaa 1020
tctctcagtg tagaatgcct tcacttttca tctctggact ctcagatcaa ttaattccac 1080
cagtaatgat gaaacaactt tatgaactct ccccatctcg gactaagaga ttagccattt 1140
ttccagatgg gactcacaat gacacatggc agtgccaagg ctatttcact gcacttgaac 1200
agttcatcaa agaagtcgta aagagccatt ctcctgaaga aatggcaaaa acttcatcta 1260
atgtaacaat tatataatgt ttcccttttt gattattgca ttgtatttta atttgtgcag 1320
aatgataaag aatgttcctt ttagaagtgt gttatgtctg tacctgtctg aagagtgaca 1380
ttaaactttg aaaggacttc actgctcctt tacgatattc caaatagttt tttacattgg 1440
aaaaactaat tcttgggatt ctttcataca ttttcataca aactttcagt gtgattatgt 1500
attcatatct tcagttaaat atgtcagtat aatagatatt gttcaaaaagt ttcttggtgc 1560
taaagtgggtg taatctgtta cacagatgaa tagctagatg tggaaaagaga tatgtaaaaca 1620
agaaaccttt gggtattgtt tcttaagtaa atattgggac aatcatggta agcaaaactta 1680
gttctgtaac tgcatttttt accttaaaaag ttaaataaaa tgcattgatg tattttattc 1740
cttgaattat gcaatgcaac atttttacatg taaatagcac tggatcatata ctgatgtata 1800
tggttatctg gggtatatct atttttatgt aaactctatt ttgtttttgg caagaagtga 1860
aattgagact tatgtgcagg ttgccattga attttgctct ggtgaatgct gagatccagc 1920
tttttcttac aaataaatgg gaccctgttt tccaatacaa atgtaccgtg tttttgttag 1980
gtacagtctg gatcatggca tgtagaaata gaaatttaga attttactgc agctttgtat 2040
tgcataattg aactttttaa catttgtaac ttttggtggc aagagaattt tagcttctat 2100
cgattttgta agtcttcagc tgaaccacta atagcagtca tagtgaagat tagcactact 2160
tagaattaaa ttaggaagtc ttttatcatt 2190

```

<210> 1032

<211> 877

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(877)

<223> n = A,T,C or G

<400> 1032

```

nnnnaatact gacagggatc tagtcatcag gataccttcc ncatgggttc cctcaaatata 60
gaggatgaatg aagtgcactt tttattgacc aagtgattgc cagtattagg gctattgtat 120
gtaactgggc atccccagc gattctttcc tcaactacca ttcagtgtca ttagggagga 180
ttttgaagct gttctctcgt gaagctttcc tgagcatgtc ttagtaaaaga ttctaattct 240

```

```

ctttagcacc ctcagtgggg gaaacagaat tagatactga aagtatctta cattaaaaacc 300
catggcttta aacatgtact tagccaatgg agaagacact tcagtggggc attccacaaa 360
taaatgcttt aagactcagg ctaaatcttg accaaaaaatt aataaaactga caaaaaagat 420
actgtctcag cattaacagg aatTTTTTTT agaagtcaca ggaactatat ctattgcaat 480
tagagatact gaataaggct taaacttaat aaataacaag tgaggaagat caaatcccaa 540
gtctggccac ttagcaaaagc ctcattgttg aaggttatcc aagagtgttt ccccttgTgc 600
catggggaaa ataatccccg ttcaatagct actacctata cctaccaga ggtgcatggg 660
aataatccta ttccgacaga aggtagggga gcaactaggt aaaggcctta gtgtctgaaa 720
ggatagtgtc tcacaccaga ttctctctga aacccttagt aatgactatg ataaatcatg 780
aggcaatgac acacctttta ctgttctcaa ataacaagat gtcacgaac taacttgtgt 840
accaaagttc agttgtttcc atagttttag atttactn 877

```

<210> 1033

<211> 1603

<212> DNA

<213> Homo sapiens

<400> 1033

```

caggTggatc acctgaggTc agagttcgag accagcctgg ccaacatgat gaaaccccgt 60
ctctactaaa aatacaaaaa tttagccgggc gtggtggcac ggcctgttaa tcccagttac 120
tagggagggt gagacaggag aattgcttga acccaggagg tggagggttc agtgagcccc 180
agcctgggtg acaatagcga aactctgtct caaaaaaaa aaaaaaaaaa aaaaacctcg 240
tgccgaattc ggcacgaggT gactttggaa gtccgtagtT tctcattgca gataattttt 300
agcttagggc ctggtggcta ggtcggttct ctctttcca gtccgagacc tctgccgcaa 360
acatgctccg ccagatcatc ggtcaggcca agaagcatcc gagcttgatc cccctctttg 420
tatttattgg aactggagct actggagcaa cactgtatct ctTgcgtctg gcattgttca 480
atccagatgt ttgttgggac agaaataacc cagagccctg gaacaaactg ggtcccaatg 540
atcaatacaa gttctactca gtgaatgtgg attacagcaa gctgaagaag gaacgtccag 600
atttctaatt gaaatgtttc actataacgc tgctttagaa tgaaggTctt ccagaagcca 660
catccgcaca attttccact taaccaggaa atatttctcc tctaaatgca tgaaatcatg 720
ttggagatct ctattgtaat ctctattgga gattacaatg attaaatcaa taaataactg 780
aagcaaaaaa gagaagaca cggccgaccg cagcaggcaa ggaggcatag aaaacgcggc 840
aggcaaaaac acacgagagg gagcacaact tcgaatcaag ccaccggagc acacacacca 900
cgagcagcac acggaccccc aagaatgaaa ggacaaaaaa cacaagaag aaaggccgaa 960
caaaacgccc gcaacatgac gcaacgcaac gggctccccg ctccccacct caaaaaacga 1020
gaacaacgaa ataacgcaca cgagaaaaga ggagaaacga cagacatatc gaggatcgac 1080
gaggccaaaa caaaacccag ctgtccgccc tgctgactac aacaaacaaa cagacaaaaa 1140
aaaaaaaaa agaacaacaa aaaaaaacca caaaagcaa aacaaccgaa caaaagaaag 1200
aaaacaggcg aaaacagcag ggaaaacaag gggacagaag gagaagaggg acgcagaggc 1260
acgacggaag gagagcggaa gggggcaggg ggagaggggg gacacaggaa gacggagggg 1320
ggaggaggag agagaggcaa gcgaaagaaa aaaggaggag aggggaggggc ggacggcagg 1380
cgggagagag caggggcata cgagagagga cgggcaggaa gcaacggaag gggcaggagg 1440
cggagagag aggaagagaa aggggacgaa aggaagaaga aagcacagga ccaggagcga 1500
gacggacagg cacagaaggg gaggagggaa aagagaagca aggaggacga gaaagcgaga 1560
cgcagagcac gaccgcgagg aggcgagaag aacggggaga gcc 1603

```

<210> 1034

<211> 2934

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2934)

<223> n = A,T,C or G

<400> 1034

```

nncactaatc ctctccaaaa ctcagtggag tagtactgtt tctttttttt tttttttttt 60
tttttttttt gagaagtagt actgttatgt ccattattgt agagaaattg agtaccttgc 120
ccaaggtcac acaggtcaca tagtaataag aaccgagatt caaagctcta aaatcagtag 180
tcttcaccat ggcaccacac tgcttcaaac tgaagggtag gttgagctgt gactagaaag 240

```

```

acacaagcat ggctacatat ctggagttgt caactctgga ttttttagtt ggaattgggt 300
cacctataat tatctgtatt catctataat tctgaaacta aattagatgg ctgttttgat 360
tcttacactt ttagacagtg gtagattatt ataaattatt cagtatacaa gatcttgat 420
aatcaaat taactttttgt taacaaaaat tttttaagtt gcattcttaa tgagtgcagc 480
agccaaat ggttggtaac ataaagtact ttagacactt ttggtttctt aagccgagcg 540
tgtcataaaa cttgtgttct taagagcaga actgtagatg acgatcttag acttacagaa 600
ttgcatgaaa ataacatatt ctacaaaaac aaaaccttcc attccaaagt taacatagct 660
tctcccctgt atttttaaca attttccatt tghtaactgca tatatataag ttataggaaa 720
aatgtgacct gatcatattt agagcatata cttgcagatt tagtccttaa cattcagttg 780
tgtcctgtag agagctatag ttgtatagct ttttgaacat cctaattata atgaaagtaa 840
tgcagtgctc caatgtactg ctcaaatcct gtttaaaaag tcataaatca accaggtaca 900
gttaatccca gcaactgggg aggtcaaggc tggaggctca cttgagccca ggagttccag 960
accagtgtgg gcaacatagt gagacccac atctctataa aaactaaatc attagctggg 1020
cattggcggt tgcacctgtg atccagctag tcaggaggct gaggcaggaa gatcgcttga 1080
tcccaggagt taaggatac agggagtcac gatggcacca ccgcattcta gcctgagtga 1140
cagagtgaga ccattttgtt ccatgagaga ggcaggaaata ttctctttga ttgttggtct 1200
gtagtgcagt ttgtccaagg aagtaatatc cccactgttt ctctcttggg aagataacaa 1260
aacagtatca gattggctgt cccagccttg acttccttgt tctgttatgt gtgttgactg 1320
ggaagaattc tgggaggaga tgtgagttga ttctccatca gagtcaactga aaagctttgg 1380
tgactgagat ccccttgcca ctgtggagga agggaagttt tccaaactct catctgtgat 1440
atcatcattt cttttaaaga atacttccca ctgggggtaca tccccatcag ctttttgag 1500
gtgaagtaca gagccagat ctccctgcag tgaagctggg attcctactt cttcttcaact 1560
ttcactgttg gattcttcac aatctacaaa gtttgtgaaa cgagagctct gcatacactc 1620
tgctctgcag catcctgggg tttgtctcag tttttcaggc tgcttttctg atactgcagt 1680
cattgaaaat acctcagggg gaaaagtttc cgggtatgga actttgtgcc ttaaagggtat 1740
tggcagagga tcatcaaaga gatagtcac ttctctctct gagtctcggg gaactgttct 1800
agctctcttc agttttccca gtggtttata ctttggctcc gtactttggg aagaccggca 1860
taaaggcttt aagcccttcc gaaggcctca ctgccaaact cctcctcctg gcagattccg 1920
ggaagccttt aggatgatat ttcgacaact ttatccatag ttgtgccaac tggaatgaca 1980
tttgatatg cgttcacagg acagaggtag ctcaagaaat ctttaatctc actgtaggag 2040
gagtgaanaa aaaaacaagc tctgtatgaa ctctctccag tectcacaat tacattttgt 2100
tttctgctcc tttctccaaa ccacatggtg gatggcttaa tgctgattat gtggagtgga 2160
attctatttc tggaaagta tccacagggg cggacgcgtg ggtccactga aaatattcct 2220
ctgccttggg atgcccggcat gcatggatct gagtgttgcc ggtctgtttg tgagatgacg 2280
aaggatctca ggcattgtcc taaacatgtc tagcttattc acatgaacct ggaactccta 2340
ctcttcacta aggttgggtg acagatattc atagccataa gccgctttgc agttcagcca 2400
cacaacatgg tacgggctcc gagtgatcca gcttcggacc agctctaaga ctccacttaa 2460
acactcctcc cgacttgga ttttgtaaaa tcttgatca cagaacgtag tatccaaata 2520
tacacttttg atgtctttga ctctgcccc ggagtgcaga agctccattc tagcagcttc 2580
tccttgccgc aatctgaagt ctctgtgta caggacagtt ccattattgc cctgaaataa 2640
aaacctctcc tgatgcttca tccactaaag atatctgggt aggagtctcg atttcaatag 2700
atatctgcac tccaaccttc ttttcaaggt aggggctctt aatcctttca tgtgatcttt 2760
gtggcagtg gacaggaagt aggcgcgggc cctcaggttc tccctatcga agcgggtctat 2820
ggagatagtt ggatactcgg ccactctgcc ctcgaaagaa ctcatagcgc cgccgatccc 2880
agagtccggg acccctaacc gcagctgagc ctgcgcgata caccgcagct cnnn 2934

```

<210> 1035

<211> 389

<212> DNA

<213> Homo sapiens

<400> 1035

```

gttcccaaac agacttggtt ttgagttcaa gaacgagatt aaaaaagaaa atctaaaatg 60
ggatgattca gaggaagtag aaataaacia ggctttacag agaaagtcca gaggagttta 120
ttggcactct gagctacaaa aaggtttgga gagtgcagca acatcaagaa ggcaatgtag 180
aaattctcca ggggagagtg agggagaaaac cccatcccag gagaagatga gtcaccagag 240
ttgtgcagtg tgtgggaaaa tcttcaacia tagtccac ttcagtgccc accgaaaaac 300
ccacactggg gaaaagcctt acaggtgttc tcactgtgag agaggttcca ctaagaactc 360
tgccctcacc cgtcatcaga cagtacctg

```

<210> 1036

<211> 1871
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1871)
 <223> n = A,T,C or G

<400> 1036
 nnnnnngccct cggccttgct cggggatcgc tccgtcgcac ccaccatgat ggaagacgac 60
 gggcagcccc ggactctata cgtaggtaac cttccagag atgtgacaga agtccttata 120
 cttcagttgt tcagtcagat tggaccctgt aaaagctgta aaatgataac agagcatata 180
 agcaatgacc catattgctt tgtggaattt tatgaacaca gagatgcagc tgctgcatta 240
 gctgctatga atgggagaaa aattttggga aaggagggtca aagtaaaactg ggcaaccaca 300
 ccaagtagcc agaaaaaaga tacttccaat cacttccatg tgtttgttgg ggatttgagt 360
 ccagaaatta caacagaaga tatcaaatca gcatttgccc cctttggtta aatatcggtat 420
 gcccggttag ttaaaagacat ggcaactgga aaatccaaag gctatggttt tgtatctttt 480
 tataacaaac tggatgcaga aaatgcgatt gtgcatatgg gcggtcagtg gttgggtggt 540
 cgtcaaatcc gaaccaattg ggccactcgt aaaccacctg cacctaaaag tacacaagaa 600
 aacaacacta agcagttgag atttgaagat gtagtaaacc agtcaagtcc aaaaaattgt 660
 actgtgtact gtggaggaat tgcgtctggg ttaacagatc agcttatgag acagacattc 720
 tcaccatttg gacaaattat ggaaataaga gttttccag aaaagggcta ttcatttgct 780
 agattttcaa cccatgaaag tgcagcccat gccattgttt cgggtgaacgg tactacgatt 840
 gaaggacatg tggttaaatg ctattggggt aaagaatctc ctgatatgac taaaaacttc 900
 caacaggttg actatagtca atggggccaa tggagccaag tgtatggaaa cccacaacag 960
 tatggacagt atatggcaaa tgggtggcaa gtaccgcctt atggagtata cgggcaacca 1020
 tggaaatcaac aaggatttgg agtagatcaa tcaccttctg ctgcttggat ggggtggattt 1080
 ggtgctcagc ctccccaagg acaagctcct cccctgttaa tacctcctcc taaccaagcc 1140
 ggatattgta tggcaagtta ccaaacacag tgagccggga ctctaaaaaa aaattgtaat 1200
 tcattgatagg cttcgatttc ctgtgacact ctgaagacat gaaagtagac atcggaataat 1260
 gaaaatattt attttaaaaa ttgaaatgtt tggaaacctt agcacagatt tgctttggtg 1320
 aaggacacgt gtcttctagt tctgcctttt taagtttttg ttcatgatgg atatgaacat 1380
 gatttttctt tatgtacaaa aactaaaata aagtcaataa agacaattct gactacaaat 1440
 tttgatataa taggaaaaat ggctaataca ttttgattct tagatactat tccattttta 1500
 tcttgctgtt cagtatttta actcactgtg tttttaaaaag agcaaaaaag ggaggatcgt 1560
 gaaaacctgg gaatcacata taagttcatc ctgaatcctg atactcccct ccccttccct 1620
 gaggtggacc acatttgaag tcagcagaga aaaagtgtga tattcagaag aaatgogtga 1680
 ttttggaagtc gctttggaag aaatattttc tttctctatg cctaaagaaa ctgaagccag 1740
 actgaagttt tgcaccctaa aaaaggaaca gcattgtttg agttacttga gcaaatgttg 1800
 gtggtccacg ttaagacata tttttaaaac ttccaaaagt gtcgattatt aaaattgtag 1860
 tattttacat n 1871

<210> 1037
 <211> 597
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(597)
 <223> n = A,T,C or G

<400> 1037
 nnnnggccct cgaggccaag tttttttata ttttaaaatt caaaaagcct aaaccagtac 60
 ttcggcaatc ataattacaa gagcttttaa tatctatctt ttctgaagat tgatgttaat 120
 tgggtccttg aagttctaga agggtggttc tttcctgggt gattttgtcc cccaaaagat 180
 atttggaat gtctggagac atttttactg tcatgactga gggaagtgga gtgttactat 240
 ctctactggg tagaagccag cgatgctgct aaacatctcc ccattacaaa gaattatctg 300
 gtccaagatg tcaatagtgc aaaggctgaa aacagtttta gaggggtctg tgtacacatt 360
 tatttcactc caagagtttg tcctataact tacttcaaaa ctaataagct tacagagact 420

```

taaggatttc tgcagaagca tcctgcacac agcagatgct taacagaaaa ctaaggaaaa 480
aacaattatg tatagttact gccaattttt agcagaactc tgcaatgaat gacccccatt 540
actaaatttc aacttaggaa atacatctct agttaagatt ttgggggctg gatctan 597

```

<210> 1038

<211> 3753

<212> DNA

<213> Homo sapiens

<400> 1038

```

gcacgagcgg cagcagcgcc gctgggcctg caggctctctg tcgagcagcg gacgccggtc 60
tctgttccgc aggatggggg ttgttaaagt tgtaagaat aaggcctact ttaagagata 120
ccaagtgaag tttagaagac gacgagaggg taaaactgat tattatgctc ggaaacgctt 180
gggtatacaa gataaaaaata aatactacac acccaaatac aggatgatag ttcgtgtgac 240
aaacagagat atcatttgctc agattgctta tgcccgtata gagggggata tgatagtctg 300
cgcagcgatg gcacacgaac tgcccctgct gctggcccgcc aggccttctca ataggtttgg 360
catggacaag atctatgaag gccaaagtga ggtgactggg gatgaatata atgtggaaag 420
cattgatggg cagccagggtg ccttcacctg ctatttggat gcaggccttg ccagaactac 480
cactggcaat aaagtttttg gtgccctgaa ggggagctgt ggatggaggc ttgtctatcc 540
ctcacagtac caaacgattc cctggttatg attctgaaag caaggaattt aatgcagaag 600
tacatcgga gacatcatg ggccagaatg ttgcagatta catgcgctac ttaatggaag 660
aagatgaaga tgcttacaag aaacagttct ctcaatacat aaagaacagc gtaactccag 720
acatgatgga ggagatgtat aagaaagctc atgctgctat acgagagaat ccagtctatg 780
aaaagaagcc caagaaagaa gttaaaaaga agaggtggaa ccgtcccaa atgtcccttg 840
ctcagaagaa ggatcgggta gctcaaaaga aggcaagctt cctcagagct caggagcggg 900
ctgctgagag ctaaaccacag caattttcta tgattttttc agatatagat aataaactta 960
tgaacagcaa ctatttctgt gttaagctct tattcttatg aaccttatag gaaataccct 1020
gaaatatttt ggaaaagcaa aggagttgac aggttttttt ctccaagaaa acaagtgtac 1080
ctaacttttt aagaaaaaaa gttgtttatt cttgggcttc tgttttacct gacaggagt 1140
attatccctt atgttgtatg atgaacagct ctccctaaaa atttggcaag caacagacca 1200
accatcagtg ggaaatattt cttccatcca tttattataa ccagatgatg aatgggaaaa 1260
gtaccttaaa gtaaacaaaa ctgggtgctaa tccatggcgt tgaaggaaag ttttgagaga 1320
aagctgtcca gtgatggtca catagatttt taacatgttc cactttaggt aggcgaaacc 1380
tttgagcaga aaatagtgga tcttttctcc aaaaggtgtt taattttatg gagatgttga 1440
aaggtacatg ccaaactctga gtatacgtgt gaaaataata tgaagagga gcaaatacta 1500
aaccttgtat atcaagttta catggggaaa aaaaacatta gataaataaa tacatttaca 1560
tgccctctta agaaatagcc ctttggccca caggatatac tgtttgaaaa tggaaagtta 1620
ttactaaaaa gtctgctata atttatttta gtcttgact taacagtccc actttcacat 1680
agttcaaaat caggatatgt ggatcttgat tgggccttaa gatgtcagtt ttgaagggt 1740
cagtcagctg cgtgatacta agatgggccc tttgaatctt taggaaagtt catccatttt 1800
tagtcaataa aattggtgta ctgtcaagta taagatttct tgaagtaagc cacttgaacc 1860
attgtgaagc tacacataac ttgatgtctg aatgaggtta aaaatgggtg tataagtctt 1920
taatacagta aaccatgcta ttaacccaac atctgtttta taaagaagca agtttaacct 1980
gctttgcagt cctaatttct gttaatgtgc aaactttacc atgctaagac attagtaaat 2040
ttataaat tcttggtgaa cagcagcttc aatgcaaa caatgcttcc agcattggta 2100
ttttggctaa ggtaaatcta caaatcactc actgttgatg tttatggaat gaagcttttc 2160
acagcattgg tttttaaagt cagtcaaaat agttacacaa tgaatgtact tcggagatgt 2220
aacagggtct ctaaaagggc aggaatgaca tcttggggac ctggtgatcc tacacctgcc 2280
attacttcag taatcacata ctgatggctt ctcaggcctg gggggaagga gttttgtgta 2340
actggcagga atttgaagcc attttttttt taatgctcaa aattgttctt taaaagtggc 2400
aggtttctta aaatggtaat tatgtccaaa tgaactaaga gtcattagtg taggaaattt 2460
tcttccacaa taatgttttt aggttattta gtatcaaaga atgttccatt tccatttgat 2520
ttgctgtgac tttgagagca atacaagaat aaagctgctt ttctaattct tcacgaattt 2580
cacttgagc accacgcagt aggtagtctt tgagtaactg acaagctttt gccaaagttg 2640
gttgatcac ttctgaagta cacttcattg tactotgatc acagctagtt ctacaatctg 2700
tgccatagac acagtccaaa tcagactcac agtgacgatc ctttaataagt tctttcagg 2760
ttgtctctgg cacaattttt ctcatatcca ccattttcaa atcatactta tcattatatt 2820
ctaggttttt ggccactagta cgcacatga ggaattttcc gtaggggcca tggaaaacat 2880
cttccacaaa ttctagaagt cctatggcta ttttggcctt tcttggccat gatggtgtga 2940
acagctgatc catgcttctt ctgaaccag atggaataaa aagttcaatg acccaaggaa 3000
ggcttattcc ataaagagag gtatattcaa cactttccat cacatagagg tcaccacaga 3060

```

```

atcccattaa tttgggggta tgttctttat cttgaagtat caccatgaga agaaattcat 3120
tcagttgaag aagtgcccat gccgactttg cttctcccaa ggaaacctgg ccatctttgt 3180
ctccatcagc caccgtcaag atgagattaa ccagttcaga gaggtttcct tggtcaccca 3240
atthttgcctt aaagagacta tagaccattt ctttaaattt ttgtacagta gttcctctag 3300
ttggcttatac aaatagcact atttcttttc ttggttccaa ttcagttcca aaatcaagat 3360
gaagcgcttg ttccatttga catttcacaa cacctggtag attatcccaa atccctaaat 3420
acatctgatt gttgggcttg gtggataaac attttccaaa gtaaagagtt tctgtaacac 3480
aaaggctgtt acatgcaggc ccatcaataa ctccagtcct gtacttgtca catattattt 3540
tcttacagtc ctttctcttg cataattctg tataggtaga atactgcaca tatataatcc 3600
agcttccaac aaaaaccact aaccaggaaa agaaaagata tttcatccgc acatatgaga 3660
agcgagcctg gaggtaatag ggtttcctta gccaggcccc cggacagaga ctcctcgcca 3720
tggtaatcac acatcgccgg acgctgggtg gac 3753

```

<210> 1039

<211> 1938

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1938)

<223> n = A,T,C or G

<400> 1039

```

nnactgccag aaccccagga cctttttcag gcctcacaga tgaagtttga agattttcaa 60
aaagatctca gaaaactgaa gaaagacttg aaagcctgtg aagttgaagc agggaaagta 120
taccagggtct cctcaaaaga gcatatgcag cttttcaagg aaaacatgga acaattttatt 180
attcaagcca aaattgacca agaggcagag gaaaattcac tgacagagac tcataaatgc 240
tttttgagata ccacggcata tttcttcacg aaaccaaaac ttggagagaa ggaggtgtcc 300
ccaaatgctt tcttcagtat ctggcatgaa ttcagctctg actttaaaga cttctggaag 360
aaagagaaca aacttcttct acaagagaga gtaaaagaag ccgaagaggt gtgtagacag 420
aagaaaggaa aatcacttta taaaataaaa ccaagacatg actctggaat taaagcaaag 480
ataagcatga aaacttgaac aatgaaaagc agaatgaaaa tgagtcattg caacgacttt 540
cacaaaattc agctgacctg agagtgggag ggaaactacc gtcattctgc tcatgtttct 600
tcttgacctc ttgcataatc tttttgtttt ctgacagttt cactaattgt tgaatttact 660
gtatatcata taaaaatgca acgtactaac cagtgagaaa tttgacacct tttctttttg 720
taaaagttta tggattata ccgatagacc aaaacagcat gtgtaagagg cagtatctgc 780
actaattctc aacatgctaa acatttaact caattcactg ttgtgagaat attcctcgtc 840
acagcaaaaa cactttcctt tctactgaca accagtcctc cacatcacag catttagaca 900
tatgggtaaa atgttatttc tagtgaattg tttgtatcag tttcatgtct aagtataaat 960
tttctatttt aaaatttaag aaccgtttat aatcagtgct ttcccaactc ttgggttgct 1020
ctccataact atgtattttgt gaaagaaaat ggtcattttt tttactgaag tcatataatg 1080
acttggtgta gctcgtaatg cattgtgatg gttttgtatg agctgggtgt ttttttccat 1140
tacttttaat gatcttcgtt gcaagttata gttgtggata aaggggagaa tttattgtctc 1200
ttgcaaacca attatggaaa gcaacttaag aaaaccaatg ttctaaatca taattgtttg 1260
tatttatgta aagtatggtc tcttactttt tagtttgtag ttttaagtgc aagaaacagt 1320
agtggttttt tttctattgt tttgtagtct tcctgtcccc ttcagtccct ccagtgtgta 1380
tattaccatt ctccaatgaa ataatagggc atttaacaaa gatcgctatg tgcaatactg 1440
tatttagtgt ttctatttca atttttctag gatgttaatt tatatgaaaa taaaatgaat 1500
aataaaagaa taaagatact tgcaaaggaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1560
aaaaaaaaaa aaaaacaaac caaacaagaa agaacatacc acaaaaaaga cagcaccaaa 1620
aggtagaaca aaaaacacta acaacaagta tcaacaaaaa gacgtgaaac aaaaagaaga 1680
aacccaaaaa gagaagaaac agaagaggac acaaatataa caaacacaca accaagcaaa 1740
acaagaaaga ccaaaagaaa caccggaaaa caacaccaac aaacaccaca aaacaacaaa 1800
ccagaaacca aacccgacaa caaaccaaca acaacagcaa aacacagaaa aaaacaagcg 1860
caaggacaaa acagagagaa acgtgagaag ccacacagaa aacagaaaca agaaaaataa 1920
atcacgagan nnnnnnnn 1938

```

<210> 1040

<211> 1450

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1450)

<223> n = A,T,C or G

<400> 1040

```

nnnnncagag cccttttttt ggggtctttag ggggggtgcc ccccccgga tttcggccgg 60
aggggacaga aaccgccccg gtattggtat taagaaaacg gttcaacggg gcggtgtccg 120
actccggctc ggggcccccc ctcgctccac aaggctggat acagggtgga ccacgcactg 180
cctaggattt catttaacag ggacctgtta gaatagaaag agcttccccca gggcactcat 240
tttaaaataa ttataactta aattattact aatgtgatta tatcaciaaag gcagaaagaa 300
ttaatgtttt cctcctttca tgaaccttgt aaggctagtg ttgagtggct tacaatgtc 360
atataatgga ctgtaaatca tctgccatat tgatcaatca tgtttattta aggttttctt 420
aacattagag atttttaatg ggagtataaa attagtaaac aaccatttca ttttttctct 480
cttcctattc tagccacata agccagttta atccatgaca cagatttcag ctgtaatttg 540
caaaacaatc caagagctac cacagtcccc aaaactacag aaaactgcca tccacaaata 600
aactaccaag gtaaatgtaa atacagcgtg gttctaattt tctttcacac aatcccagac 660
aaccccaaat aactttataa ataccttatg aaaaaaagca atttaaaaac ctatcaaata 720
tatttaaaat atataaatgc agacctctca aatttccttc aatcaggcca gaaattatca 780
caaaaattat caatacagtt acaaacagaa tgagtggagt gtttgtaagt ttaggacaac 840
caaaaaagcc ccatgtaact ttttaaaaat ataatcattc actcaaata actgtaaata 900
ggaatggcag taacacagga agcaaaaata aacttgcaag tgaaatttct agaagctcat 960
gaaaacaata ccattccata ttgcagatac aaaaggaaaa acagttctaa tggggttaag 1020
agtactctgg tcatcttcgt tctgttggtc gtgcaagggt ttaactattt tcaactccca 1080
tatcaciaaag ttagtccaca ggaggagctg gtggatcttg tccattatga ggactgggtg 1140
gctttccagg taggtggat cctcttagat taggaggtct cagtaagaac aagatcaatg 1200
caataaccat ccaggctacc aagatcattg taacactgat gccattatca ccagagggtc 1260
ccggtaatct ctgaagacac tctgtgtctg tgacagttaga ctgggactgc cgtaacagat 1320
tgatcagctc tctcattgca tgttcattgag agcaaacaca ttcacaggga tcaaatccac 1380
cttctgccat gattaccag cttgattaac tgcccgttaa ataacaaaat cccctctccg 1440
gttctgaggn                                     1450

```

<210> 1041

<211> 2778

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2778)

<223> n = A,T,C or G

<400> 1041

```

nnnanattga ttaatgttgc cgaatactca cagttactta tgaatgctga tcaattaagt 60
cttatcattt gaaagcaaac ccagtgtctat caacgcagag ttgccattac ggccgggggt 120
tatattctgc tatgcaatca tcagatcatg aggaataaga atgagacaat ctttactacg 180
atgttcagac ttatcatgat ggacccactc tcagagaagt taatggctct tgagatttcc 240
aggcaaattt catctgtcga tatctggttt ctgtgcatca ggagtgagac tgaagtctca 300
ggcggtggct tgtctgtcga ggccccctct tactggaatg aatgaatgta aagaatgggt 360
gttaagaggt ccctggagct gccttcaaca taaggggtcc tagagggtgc aagactcatc 420
aagaaccagt ttaccccatg caataggact gctaaagcca gagaaatgga caaagcccag 480
ttggaactga atttgaatct cataaagcta cagggtgcatc tgagagcagg ctcagtgggtg 540
aagatcaaga tagcccggtg aagccctgct tgggcttttt agcctcagcc acatggatac 600
ctctcagttc ctgccattaa caatattcat ggaaaataca gcactgtgtc tttcacatgc 660
tccactctgg aagggttatg ctctgagctc aggatagttg gggaacacat ttttaaatct 720
tggtttttaa caaaaagaga aatttattaa aatggagata taattgtgca tgggtacatat 780
atttctgaaa agttatgtat aaatcaatta tgttaaaagc gccagaagtt actttttata 840
agtgaactat tacgaataat ttcataaagc aaataaccac ctctagctta tctgtcaggt 900
atatcagaat tctcatatat catagtctca taagacttgg ttaaagcaga tctatcttag 960

```



```

gtaggaaaaa atagtaatcg attatactta gctgctttta tctgtagtgt gggtagacttt 1020
ttataactat tatgttttat aatgtcttcc tgagagaatt tcctaatttt gtagttcata 1080
taagagaaat acaattttct agcattttct gaccttaca taaatcaatt atgaatgcat 1140
ttaaacaat attaaggtag gataaaccaa cagaataaaa agttgggtatt tacttacatt 1200
gaatatcatg caaataaact cagaaaatgt caccaaatac tgtgggctat atttctcaat 1260
gataggggga agaattcaac cttggagaaa atgaccagat cactttactg cttatatctt 1320
cagtattaga aaaactgcat gtatgatttt aatagaaatg ctttttataa agctaacatt 1380
cagaaatggg ataaaatgca ataacatctt tcctttgtgc attaaattcc cttctaattc 1440
taaaattgac atttgtatct tgcttaggat ttaacattgt taattataat acttttaatg 1500
actagtttta atctcattat taagaagtag aaaacttact aaaaaggaaa ctaaaaaata 1560
atgttgtttt gccagattca aaaaaaaaaa aaaacaaaaa aaaaaaaaaa aaaacaaaaa 1620
gaaaaacaac acaacaaaca aaacaaaaga agagagaaga gagaaacaca caacaacaaa 1680
aagaacaaag aagaacaaca cacacacaac agaaaagaaa agagaaaaac gaagagagag 1740
agagggagca caacagagac gacaaccac agcaaggaga acacgatcag aaaaaaaca 1800
acaacagaag aagaagggaa agatagcaaa gagcaacgga aatacgagca gaagacggaa 1860
aaaaagaaga agaacagcgg cggagaagca gacaaacaca aacaaacaca gaagaggagc 1920
agacaggaca gcaaaaatta gcagcaata gaacccaaac aacagcgcg gagcaggaga 1980
agcaaagcac accataacaa gacggagaaa gaaaagctga aaagaaaaaa cgaagagaaa 2040
aaacaaaaag aaaaaaaaaa aacaaagaaa acaacggaga tacaagcag agagagggaag 2100
aggacacgaa gaaaacatac acgaagacaa gaagaggaaa acaaggaaa caaaccatcc 2160
gagcaaatca aaatgcgac agcccacgaa gaaaaaaaaa agacaagaat cacagccaac 2220
agcacgagca agacaataga aaagacgcaa aaacataaca gacaaggcaa gaaaagacaa 2280
gagatagaca ggcgaggaca aaaaaaacga agacagaaaa acaaaaaaaa aaaacagaga 2340
acaaacgaaa agagaaagag aagaaaggag aaggcacgat aaacaagaaa acaacaaaga 2400
agaaaaagcg agaaaagaca gagcagaaga gagagcgaaa aaaaggagcg aggagaaata 2460
cgaggaaagg aggaggaggga aagaggagaa agaaagcaaa gagaaacagg cagcggcgaga 2520
ggaaaacgga ggcggaggga cacggagaga gaaagacgaa accagcgaga ccagaagcaa 2580
acaacaagaa ggagagagaa gaacagagaa gaaagagcac gacggaaagc agaagagggg 2640
aacaggcaaa aaaaaagacg agaaaagag agagaaagca agaggaaactg agaggggaaa 2700
ggagaagcga agagaggaca caagagagct aagaagaaaa gaataaaaga ggaaaagaaa 2760
cgggaactga acaaccnn 2778

```

<210> 1042

<211> 610

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(610)

<223> n = A,T,C or G

<400> 1042

```

agtcgaccca cgcgtccgcg ccggcccgca atggtgctac cctggttgct gctcgagact 60
gcgcgagggg cggctcctcg gtccgaggag gctgcgctct gcgcatgaa aatgacagat 120
gaaaatagaa aagtgtggct ggtctgaagg tttgacgtca ataaaggga actgccacaa 180
tttttatact gctatttcta aagatgtcac ttataaggaa cttaaaacc tgttgaattc 240
taaaaatatt atgttaattg atgttagaga gatatgggaa attctggagt atcaaaaaat 300
ccctgagtct atcaatgtac cattggatga agtaggtgaa gctctacaga tgaatccaag 360
agacttcaaa gagaaagtaca atgaagtaaa accatccaaa tctgacagct agtggtttct 420
tatttagccg gagtgagaag caagaaggcc ctggacacag caatatctct gggtttcac 480
aggtgtgtag atgaatgaaa aaatggattg ataaatgtat aatccaatgt ttcatatata 540
ttacattttt atatgtctat ttaagaattt cttgtaatta ctgtcagtaa aggcaggata 600
nnnnnnnnnn 610

```

<210> 1043

<211> 3901

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(3901)
 <223> n = A,T,C or G

<400> 1043

```

nnccgccacg cgtccgccgg cccgatggag cgcgcggggc ctactagccg cggggggccaa 60
gccccgggct tcttactgcg gcttcatact gagggccgag ccgaggcggc gcgggtgcag 120
gagcaggact tacggcagtg ggggctgaca gggattcacc tacgctctta ccagctggag 180
ggagtaaact ggctcgcoca gcgcttccat tgtcagaatg gctgtatcct gggagatgag 240
atgggccttg ggaagacctg ccagactatt gctctcttca tttatttggc aggaagatta 300
aatgatgaag ggccatttct gattctttgt cccttgtctg ttttgagcaa ctggaaagaa 360
gaaatgcaga gatttgctcc aggtctttcc tgtgtaacat atgcaggcga caaggaggaa 420
agagcctgcc ttcagcaaga cctgaaacag tgctcacgtt ttcattgtgt actgactacc 480
tatgagattt gcttgaaga tgcatcattt ctaaaatcat tcccttggag tgttcttgtt 540
gtggatgaag ctcacagggt gaaaaaccaa agctccctgc tgcataagac cttgtcagag 600
ttctcagtag tcttcagtct cctgttgacc ggaactccca tccagaacag cctccaagag 660
ctctactccc tccctagttt tgtggagcct gatctctttt ccaaggaaga ggtgggagat 720
tttattcaac gctaccagga tattgagaaa gaatctgagt cagcaagtga actgcacaaa 780
ctcttgacgc catttctgct gaggcgagtg aaagctgagg tagctacaga gcttcccaag 840
aagacagaag tagtgatata ccatggcatg tcagcattgc agaagaaata ctacaaggcc 900
attttgatga aagacctaga tgcatttgaa aatgagacgg caaagaaagt taaactacag 960
aacattttgt cccagcttgc aaagtgtgtg gatcacccat atttgtttga tgggtgtggag 1020
ccggagcctt ttgaagttgg agaccacctg actgaggcta gtgggaagct tcacctgctg 1080
gataagctac tagcattcct gtattctggg ggccatcggg ttttactttt ctcccaaatg 1140
acccagatgt tggatattct ccaagactat atggattaca gaggctacag ctatgagcgt 1200
gtggatgggt ctgtgagagg agaagagaga cacttggcca ttaagaactt tggacagcag 1260
cccattttcg ttttctcct gagtactagg gcaggtggag ttggcatgaa ctaaacagca 1320
gcagatactg tgatttttgt tgacagtgc ttaaatcctc agaatgactt gcaagcagct 1380
gccagggctc atcgcttgg ccaaaacaag tctgttaaag ttattcggct gattggtcga 1440
gacactgtgg aagaaatagt ctataggaaa gcagcctcca aactgcagct caccaacatg 1500
atcatagaag gaggccattt tactctggga gcccagaaac ccgctgccga tgcgtacctc 1560
cagttgagtg agatactcaa atttggtttg gataaactgc tggcctctga ggggagcacc 1620
atggatgaaa tagacctgga gtccatcctg ggagaaacaa aagatggcca gtgggtctct 1680
gatgctttgc ctcgacaga aggagggagc agagatcaag aggaaggaaa aaatcatatg 1740
tacttatttg aaggtaaaag ttattctaaa gagccagta aggaagacag aaaatcattt 1800
gaacaactgg taaaccttca gaaaacctt ttggagaaag ctagtcaaga gggccgatca 1860
ctccgaaata aaggcagtgt tctcatccca ggccttgtgg agggatctac caaaaggaag 1920
cgggttctga gtccagaaga gctggaggac agacagaaga aaagacaaga agcagctgcc 1980
aagagaagga gactcataga ggagaagaag aggcaaaagg aagaggctga acataagaaa 2040
aagatggcct ggtgggaatc caacaattac cagtccctct gcctgccctc tgaggagagc 2100
gagccagagg accttgagaa tggggaagag agctctgctg agctggatta ccaagacca 2160
gatgctactt ccttcaagta cgttagtgtt gatgtcaccc accctcaggc tggggccgag 2220
gatgctctca ttgtgactg cgtagatgac tctggccact ggggcagagg tggtttattt 2280
acagctctgg aaaagcgatc cgctgagcca agaaaaatat atgagctggc tgggaaatg 2340
aaagacctga gtttgggagg tgtcctttta tttcctgttg atgataaaga atcaagaaac 2400
aaaggccaag atttgttggc cttgattgtg gctcagcatc gtgatcggtc caatgtcctg 2460
tctggcatta agatggcagc cctagaagag ggctgaaga agatattttt agcagcaaaa 2520
aagaagaaa caagtgttca tcttccacgt attggacatg ccacgaaagg ttttaactgg 2580
tatggtactg agcgacttat tcggaaacat ctggctgcaa gaggcattcc aacttacata 2640
tattattttc ctagaagcaa gtctgctgtc cttcattcac agtcttcac ttcctcctca 2700
agacagctgg tgccttaaga attggcccag cctcagatcc tgtcttttagc aaccagctaa 2760
tatttaccca gaggtactgc aatagagtat ttcaaaatgg aatcaggatc tgggtgggctc 2820
agaaattgtc ccttcgaagt acaataggat ccctggaggt cgcgcgttgg gacggacaca 2880
tgggagccca cccttttggg aagcccagac ccgcgcgtga cgccaccat cagtccgtcc 2940
cgcaacgaca acaacaaaca ggtgggcggc cgaaaatcaa cacgtggggg cagaagagag 3000
tacagagaca aggtacaacg cggcagctac actgcgcga caggcaagta gcaggcacga 3060
ggacaaaaga cgacaaccac atagccaaca cacagcatca cggaccgaca actagcgaca 3120
cagcagagca cgcagagaga cacagtgaga cagtggacgg cgagcggcgg agccgcaggg 3180
gaccgcaccg agaacgggagc agaacgagga ggagggcagg aggggaggag gagaggcgga 3240
ggcagggggg aggaagggcg agaaggggga agcgcgaggg cgagaggggc ggcaagggcg 3300
cgaggcggac ggagggcgcg gagcgcgagt gagcgcgagc cgaggggggg cgagggggga 3360

```

```

ggcgggggga agagcggagg gggcggaggc gggggggggc gggcagggga gcgagagagg 3420
gcbgaggtgg ggagaagcga gggcgcggcg gagggagggc aggagtgagg gacgcgacgg 3480
cggaggagga ggacgaggac gggagaagcg ggggggacga aggcgggagc cagagagagg 3540
ggcggggtga gcbgagcgcg gaccggcgaa gcbgagaaag aacagggcag agaggaggcg 3600
gtcgggggcag cggggcgggg ggagggaggg agggcaagga gggagagagc gaaggaagaa 3660
agagagggga tggcagggca gaagcagggc gaccgcggtg tcggcgagga gggaggggca 3720
cgggagggac aggacgcggg agggggggga ggggggaggg gggggcagcg ggagggcggtg 3780
ggggcagagg cgaggggggg ggcgcgggcg tccgaggaaa gggagggcag agacagggca 3840
aggcggcgca cagggcgagg cgagggagcg gaggagcgcg gacccgtgag acggccagan 3900
n 3901

```

<210> 1044

<211> 1057

<212> DNA

<213> Homo sapiens

<400> 1044

```

cgtccgaagg aatgtctctt tgcctacttt tatgaaacaa gatttgctat taatttaaga 60
ccttagtctg aggttggtta gcctccccag ttactctctg gccttcaagc tcttttcatt 120
gttagagatt actgtgatac tgggggagaa gggtagaagt aaacttaaaa ggagtgtcaa 180
gttatcagac ttgttaaaga tgttgaaagt ttaaattggga aagccctttt gagctttgct 240
gtaaagccgc tgtattgtgc tctctttcag gtgggatgtg tgtgggctga aattccgagc 300
tgcggttgtg catgagaata cacccttcgt ggtaccccat ctccgggacg ttctcggctc 360
tgtgcgttca gtccctcagg aaccgtggac cttaaaacag gcaagaacac aagactatag 420
aacttgctgg gtggtctctt ccattctgtt ttagctggaa ataatagatt atgtttcccg 480
ctcttaagca taatttaccg ctggggaagc aaacacttcc ccttttcagg tttgctaaga 540
tgttgctcac cgactgcata gaatcacaaa ctgtgggtta ctttaccctg cgggattctt 600
gcattgattc gagtgtctgt ggaagtgtaa tctgcttggg gaaacgagta cctcatgaga 660
gaaagggagg taaaggtccg tggcttacct gcttctttgg tgatgatcag gaagccttat 720
atttgagggt ttaagtgtt aagatttata ttctttactg ctttgggtgg atactggtgg 780
gaaagaagaa aaaagacatc tagaggaagc cctatattat aaatctgggt ggcaagtctg 840
gatctgocgg agtatctttt tgttgatcaa agttgtgcag tctcttcaag cagagtcaaa 900
aaaacatgcc atggagtgtt ctgctccacc tgttcatttc accctcagaa aaggaaattt 960
ctaaatatat cagactcaat gggaatgatg gtcccgcttc tgaagaaatt tcagtacaag 1020
catcgtagag catatcatac tatttatacc gataata 1057

```

<210> 1045

<211> 4465

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(4465)

<223> n = A,T,C or G

<400> 1045

```

ccccattcgg gggtaaccgt gtcatttgct tgcaacactg gcacctctgc cctgcacccc 60
gggagtggag agtgagtggg gctcgggtct gggcgctggc tccgaatctt cgggctggga 120
gagactccac catctggggg cggcctgggg gagcagcctt agtgtcttcc tgctgatgca 180
atccgctagg tcgcgagtct ccgcgcgag agggcgggtc tgcaatccag cccgccacgt 240
gtactcgccg ccgcctcggg cactgcccc a ggtcttgctg cagccgggac cgcgctctgc 300
agccgcagac ccggtccaca cggccagggg ctacgaccct tgggatctgc cctccgctca 360
gctcgagctt ccctcgtggc cgacggaaca atgaaggatt gcagtaacgg atgctccgca 420
gagtgtaccg gagaaggagg atcaaaagag gtggtgggga cttttaaggc taaagacctt 480
atagtacac cagctaccat tttaaaggaa aaaccagacc ccaataatct ggtttttgga 540
actgtgttca cggatcatat gctgacggtg gagtggctct cagagtttgg atgggagaaa 600
cctcatatca agcctcttca gaacctgtca ttgcaccctg gctcatcagc tttgcaactt 660
gcagtggaaat tttttgaagg attgaaggca tttcgaggag tagataataa aattcgactg 720
tttcagccaa acctcaacat ggatagaatg tatcgctctg ctgtgagggc aactctgccg 780
gtatttgaca aagaagagct cttagagtgt attcaacagc ttgtgaaatt ggatcaagaa 840

```

tggttcccat	attcaacatc	tgctagtctg	tatatctctc	ctacattcat	tggaactgag	900
ccttctcttg	gagtcaagaa	gcctaccaaa	gccctgctct	ttgtactctt	gagcccagtg	960
ggaccttatt	tttcaagtgg	aacctttaat	ccagtgtccc	tgtggggcaa	tcccaagtat	1020
gtaagagcct	ggaaaagtg	aactggggac	tgcaagatgg	gagggaaatta	cggctcatct	1080
ctttttgccc	aatgtgaagc	agtagataat	gggtgtcagc	aggctcctgtg	gctctatgga	1140
gaggaccatc	agatcactga	agtgggaact	atgaatcttt	ttctttactg	gataaatgaa	1200
gatggagaag	aagaactggc	aactcctcca	ctagatggca	tcattcttcc	aggagtga	1260
aggcagtgca	ttctggacct	ggcacatcag	tggggtgaat	ttaaggtgtc	agagagatac	1320
ctcaccatgg	atgacttgac	aacagccctg	gaggggaaca	gagtgaagag	gatgtttggc	1380
tctggtacag	cctgtgttgt	ttgccagtt	tctgatatac	tgtacaaagg	cgagacaata	1440
cacattccaa	ctatggagaa	tggtcctaag	ctggcaagcc	gcatcttgag	caaattaact	1500
gatatccagt	atggaagaga	agagagcgac	tggaacaattg	tgctatcctg	aatggaaaaat	1560
agaggatata	atggaaaata	gaggatacca	actgtatgct	actgggacag	actgttgcat	1620
ttgaattgtg	ctatgtttct	ttggctacct	gtgcataatg	tagttttgtg	tatcaattgtg	1680
ttacaagagt	gattgtttct	tcattgccaga	gaaaatgaat	tgcaatcatc	aaatggtgtt	1740
tcataacttg	gtagtagtaa	cttaccttac	cttacctaga	aaaatattaa	tgtaagccat	1800
ataacatggg	attttcctca	atgatttttag	tgctccttt	tgtacttcac	tcagatacta	1860
aatagtagtt	tattctttaa	tataagttac	attctgctcc	tcaaccaa	gcaatttttt	1920
gtgtgtgttt	gaaagcta	ttgagaaaat	ttcatagggt	acatttcctg	cagcctatct	1980
ttatccacag	aaagtgtttt	ctttttttta	aatcaagact	tttaaaactg	gatttcctcc	2040
catcactgtt	tttgaaggt	cctccaagtc	cgtgttaagg	tataatctctg	ttttcttctt	2100
gatgtcacag	ccttgacata	ctctgtgcat	taggaagacc	tgagtgcatt	tcccaccatt	2160
gtcctttcca	cattatgttg	tagctggctg	gctgtcaggc	gactacaaga	ctgaggggtc	2220
tgtgccttat	agatctttgt	atcccccag	gctgacacat	agtaggtact	cagtaaatgg	2280
ttttataatg	aatcagtgaa	cattttgctt	ctatagaagt	gtaccttctt	tgtttctata	2340
ttatgaaacc	tctttattag	aatttgtgat	tgattctgac	agtgtataga	tttaccttat	2400
attgtcttta	ttttccatga	gctactaagt	cattagagat	actctgaagc	atagttagtt	2460
taggaaatca	cttcattatg	attgtattag	aattatcttg	gaattgaaga	tatatcccta	2520
gagcagggga	ccccaacccc	caggccatgg	gccacacagc	aggaagaggt	gagtgtggg	2580
ccattgagga	gcttcactctg	tatttatggc	tacttcccat	cactcgaatt	accacctgaa	2640
ctccacctct	tgtcagctca	gtggcagcat	tagattctca	tagaagcaca	aatcctattg	2700
tgaactctgc	atgcaaggga	tctaggctat	gcgctcctta	tgagaatcta	atgcctgatg	2760
acctgaggtg	taacagtttc	atcctgaaac	caccttcac	cctgcagtct	gtggaaaaat	2820
tgtcttccac	aaaactggtc	cctggtgcca	aaaatgttgg	ggaccactgc	tctagagaga	2880
ggtcatgata	tcataccaac	caaatggaaa	tgacaaatgt	tttatgtcaa	gtgttaattg	2940
cagaaataaa	cttttttttt	tttttttttg	tgaaaaacaa	agaggcatac	tctgattttt	3000
atactctgtt	tttgaggtg	ctcttttctt	tgaatggaga	tttgatgagc	aagtgggttag	3060
gatgcagggg	gagctactat	gggtgatatt	ttccttgttt	aggagctgtg	agttaaaatt	3120
gtatcctttc	tgggttatct	aaggaaagtc	aatccttgac	agaaaacatt	tttctcttga	3180
aggccaactc	tcagacattg	tattttggtt	tccctcagtc	ctcataactt	ccttcttgct	3240
gaacataatt	tattctcttt	tcagagaagg	aaaataaaaa	ggattctaaa	agtttgatgc	3300
attggaaaaa	tttctctgag	gcatttagca	acacatagaa	aatgggcttt	gattcttttc	3360
caaaactttt	agccataggg	tcttttatag	acagggatag	taaaatgaaa	attgagaaat	3420
ataagatgaa	aaggaatggt	aaaaatatct	tttagggggc	ttttaattgg	tgatctgaaa	3480
tcttggggaga	agctgttctt	ttcaggcctg	agggtgctct	gactgtcgcc	tgcgactgt	3540
gtaccccgag	caacattcta	agggtgtgct	ttcgcttggt	ctaactcctt	tgacctcatt	3600
cttcataatg	tagtctagga	aaaagttgca	ggtaatttaa	actgtctagt	ggtacatagt	3660
aactgaattt	ctattcctat	gagaaatgag	aattatttat	ttgccatcaa	cacattttat	3720
actttgcatc	tccaaattta	ttgcggcgag	acttgtccat	tgtgaaagtt	agagaacatt	3780
atgtttgtat	catttctttc	ataaaacctc	aagagcattt	ttaagccctt	ttcatcagac	3840
ccagtgaata	ctaaggatag	atgtttaaaa	actggaggtc	tcctgataag	gagaacacaa	3900
tccaccattg	tcatttaagt	aataagacag	gaaattgacc	ttgacgcttt	cttgttaaat	3960
agatttaaca	ggaacatctg	cacatctttt	ttccttgtgc	actatttggt	taattgcagt	4020
ggattaatac	agcaagagtg	ccacattata	actaggcaat	tatccattct	tcaagactta	4080
gttatggtca	cactaattga	tcgtttaagg	cataagatgg	tctagcatta	ggaacatgtg	4140
aagctaattc	gctcaaaaag	atcaacaaat	taatatgttg	tgatattgca	taatgggtgc	4200
aattatttaa	tggttattgg	gttgtccaac	tgagattcgc	attcacagtg	cgttatataa	4260
cagaactggg	ggcttaaaag	attgttaata	tttgggtctt	cttaattttc	aggggtcaaa	4320
ttgcagacgg	gtgggggtct	tgaacctgta	caacagggtta	agagttggaa	aggaactggg	4380
gctaaaaagg	ggaaattggg	gttatggcac	gggcaaaaga	gggggtgctc	aaggaaaatg	4440
gtaaaaggga	agggtgtcnn	nnnnn				4465

<210> 1046
 <211> 1066
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1066)
 <223> n = A,T,C or G

```

<400> 1046
nnctcttggg cgccccctgg ggtgttttgc gccccccct ctcttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttagt ggctgggtga ccccaggcaa ttttattact ttatccctga acctcagttg 180
cctcatctat aagatggggc taataatagc acccatttca taattatgaa gattaaatac 240
attaaggaaa acactagtat gtccctagta cctgctaaac actcaacaaa agttaactgt 300
acatactgat gtctcaaaca gggacggaat gtttaacaca gaaaacagga ggttttagca 360
ctcactcgtt ctccctggctc ccgaaatatg agctgccctg ccccagttca tccaagccca 420
tcaatatagt tgtcctcgtc cttaatctcc acaggtgttc aatgtgagcc aactgtcaga 480
tggctttcat ttgcacaact gaataaacca tttatgccta gtgttccatt actggaacgc 540
taagcttatg ggagttatth atatcttact gctogaggtc ctcaccaaga tctgattttt 600
tcacaaaaaa aatttgtaat ctccagcata aatggaataa tcaaagcaat tgtggcagtt 660
ttgggggggac aaaactctag agtttaatct tccagcttga ctgacttgga agcgttcctg 720
tcaatgtaaa agatcttggt gggggcggtg gagaagccga ggccggctcc ccgccgcgac 780
cacgctaagc cggaccgggt cgtagtcctg ctgcagattc tgcgcagggc tgcagccgc 840
cttcttgccg agggccatgt tgggccttgc aatcgtgctg gcggggcggc tgaacgaagg 900
ggacaggttt ttgaagccac ccataagtct gagaaatttc agtttttggg cctcgttctc 960
aaaaccagca gtatcccact ggccaaaactg ggttcccgtc cacttcctgg tttcagaagc 1020
ttccgttttg cctgactcgc gatcgatctc ttcattggatc agagann 1066

```